

gtatctattg ccggcggcctt cttcggagaa tatgccgtgc gggctatggg gactgaaacc 3180
 aagggagtgg aaggatacgt tacaaaagac cccaacggaa tcaccaacca catcgatatc 3240
 atcccaagtc gcacgaatcg gtcgccaatc gggatttttg cttctaataga tcgccatgtg 3300
 cggacactag attgcgaaac taacaccttt cttactgac atgaactcac gcatgcggtc 3360
 aactgtacat ctacttcacc tgatggtcgg ctccgtatcg ttgtcggcga ctcccccgat 3420
 gcctgggtcg ttgaagcgga gacaggccga ccggtttacc ctctgcgtgg acataaggat 3480
 ttcggcttcg cctgcgcctg gtccccggat atgatgcagg tcgccactag caatcaagac 3540
 aagtcagcga taatctggga tgcacggaca tggcgcgtgc tggagaagat cgagtccgac 3600
 gtagcgggct accggtctct acgattctct ccagtcggcg gaggtccgcg caccctgctg 3660
 ctctgcgaac cggcagaccg gatagtgatt gtcaatgcac aaacataaccg atcgcgccag 3720
 gtccacgact tctttggtga agttggagga gcagactact cgcctgatgg aagcacaata 3780
 tgggcagcca acacggacga gcggtttggt gggtttatgg agtacgatcg gcggcagtgg 3840
 gggcagcagt atggcttgca gcagtcaccg aatgaatggg tcaaggaggc agatcttgac 3900
 gaagatgagc gctgtatact cagcgaacga gaacgacagt cgaggcactt gtggaattta 3960
 tgcgacgagg ggcacgagga gttgctgctg tgctagccat cagacctttt cctttgttgt 4020
 aagttatatt acgttggttt atgccgggtt tttgggtaac agcatttcag cggagatacc 4080
 acatcatacc catgtacact ggagggtatt aact 4114

<210> 1719
 <211> 3765
 <212> DNA
 <213> Aspergillus nidulans

 <223> unsure at all n locations
 <400> 1719

tcgaacaggt aaaagaaaag ctagatgaca aggttgagga gaaaccaag aacaaatccg 60
 atacaaaggc agtcgaggac gccgacgata aagagctgac tccgcccgcc tatgaagcac 120
 cgacggtcaa tgctgaacag gaaactgaat catcggagcc aatgcctacc acgcagtga 180
 gattatctc agcagtgccg attttgggta caccacagac taggaaacct acacttcag 240
 atacatagat ggcttgatct gcaaactctt tcttctttgt cattatctac ggattttggt 300

tttccggcag ccggtttcct tcgtatttcc ttggacgagg cgtgggatgt atgcttagct 360
 tggtttcatg ttttcgctga catgtttctca taccacaccc ctgatgctcg ttatgggtca 420
 cgaatgatgt attttgcttt actttgcttc tctagctcgc tgttaaaatc atgaatatga 480
 actttctcag aataacgtgc tccgctgggtg ggtagcgtgt gtccaaggca acctcggtaa 540
 ggcagagata gttgaaacct aaggcacaaa cacatatcaa acccatcaaa cactttaaga 600
 ctaattattt ccagctctcc cactgcattt ccggcctttc caccttgaaa agtactgacc 660
 ctaccactac cacagcagca gaagctgata caaaaaccac actatctcgg cgccaagcgc 720
 ctcaatattg cacccttttt ttgacttccg catctgagag caatcaagct cgatcaaccg 780
 caatggcgac ctccgcagct tctccgatcc ccagctcaca ttcaacatcc accacaaccc 840
 ccaacccgaa cccaaagcct cagccttcac aacccccggt ctcaattctc tccacaccat 900
 ttgcgggtgt ttacgctctg gccacccag ctctctcctt ttcctcgtc gcctaccgat 960
 tcagctctgt catcgagaac cccgttgctg agctcttagg caacataccc tacctcgtcg 1020
 gactccaagt tgtctacgtc atgggctgtc tcccgccgc cgggagcgaa aaagatacct 1080
 ctggagccgg taacaatgag gagactaagg ccttgaggaa agtcgctagc acgggtgctc 1140
 tccgtcgccg cggcaaatct tcgcctggta caacaagctg gtcctccgga ttagtcctcg 1200
 ttgcgtggaa gttaaccgta tgcccatgtc gaccgaccc atggcttcca gttcagcatt 1260
 aagctaactc tgaatagccc gccctgctct ccctaacgct cacagctctc ctcgcaactc 1320
 ctgtccttgc attcttgctt gtcctcttcg gtgccccgct aacgaccac cacgcgctga 1380
 ccttctctg cgcggcacat atggccgtcc tctcaacttt cccgcttata tacacacacg 1440
 gcgttgatgg ccccggtgg agagagatct ggggagcggc gagaccattt gatactgtgt 1500
 ggggtggcgc tctgggaact tgtttgggtg cctggcttgg ggcagtgcg attccgttgg 1560
 attggtatgt ctagcatgat ttttctcccc attttttctt ttccttcaag cgtggatggc 1620
 tgacttgta tttgtgtgtg tgtagggatc gtccgtggca ggcgtatccg attaccattt 1680
 taacaggggc gtatgcgggg tttgcgctcg ggatgcttgt ggggagggtc aaaggtgtgt 1740
 ttgggaagag gattgagttt gcgccggtgc cagaggtggt ggaaccggtg caggagata 1800
 tgaagaagtc tgagtagcgg gttgacccat tcaatagggc cctagctcaa ccacggtgta 1860
 ttttgccttt atggtgcatt gtaaggcga gtatcatcta cccatcctat acattattct 1920

atcttacacc atgcaatata atgtatttgt acttttagatt tttataccga tgatcatgaa 1980
 aatgaatgta ttctagcaac caggctatgc caatgcaagt agatgtgaat gatatatagg 2040
 aatgacatgg ggaatcaaca ggagatggac atcaacttag atcaccagga cactcaaaaa 2100
 agtgtacaaa gaagagaaga atggcgtgtg gtatctcaaa ttactcaccg aatgctgaaa 2160
 atagtctata tctaccatgc gccgaaatat ttcgcttcct aatgggaaaa cgataacgat 2220
 gtgggcggtc aaatcatatt agcgacttca acccgacgag tgccttgcca ggtacgaaac 2280
 cggtcgtctc tgggtttcgc ttcagtgtga tctcgcgagt aactagactc ggggtcgctt 2340
 ttgtaacgag actgagagga gagcttgtct ggcgtttgtc gaggcgagct actaggggag 2400
 tcatctggac gtatgcgcat gtactcttca gactcgaaac tgcggattgg gtacattgtt 2460
 ccgacgccga tagagtcgcg ggccatctgg gtgagtcgtt cgatatcttc tcgaaggctc 2520
 gagacttggt gctcaagggt ccgacgggct gtttgttcgc ggcggaggag catgactaac 2580
 gcactgtatt gctggacaga tatggcgccg gagtcactgt tcaaagaaac cattgaaggt 2640
 gcttgccagg cgcgggcacg ttgaatgtca ctcgggcttg ggcggatggt gctcgtgctt 2700
 aaaggacggt cgggtggatgg aatgtgctct gctgttggtt aagagtcacg gcgagttgac 2760
 ggtggagaat gaccgggtga ctttgccgag gactttgccg atgacttctg acgtttatga 2820
 cgagaagggt ccgagcctct tgcgttcggc gcacagctg ctggcgtgtc tatacggcca 2880
 ctttgcatcc gagcaattgc aaactctagg tcgatcagtt ttacttccag tgtggtcacg 2940
 cgttgctcta gtgaagcgtt gtcgtcgggt tgcattggag tgatgagctc tcccacattg 3000
 ggaggtaaac tcggaggtgg aatgggctca gtttctgatt cctctccgaa agccgacgta 3060
 tctgcggaag gtttgaatgt agaagcagtt gctacggtgg accgagtagg cggacgagaa 3120
 gaatcactat caggcccaat gccgcacgtg gttgacgca gaaattcaga ctctacgctc 3180
 cgccgtctct tccactgtat cggagacatg cggtggtgct cctgtgccag gacgcgaaga 3240
 gcacccgcac ttcgcgagcg ccggtttgcg ttccgcatcc ggcgtcgtcg tatctcctcc 3300
 gggtcgctac acgcatgagg actgagcttt aggttgctag atttcctctc aggggtgcaca 3360
 accgcctcaa gggcctgtcg agattcatca tcagagaata ttaagctggg caaagtggct 3420
 cgcctttgcc tgggttcggt gtctagctgt ttcaatacga catccagcgt cgtaaggtt 3480
 tcagtgggtt gttgaactaa agcgccttgg cgagggctcc ctgagtttga agtatctgga 3540

gacttatgtc gatgacttgt cggaaatgta ttgtcattaa agttgaagtc cgctatggga 3600
 tcgtccagct cgtctgtccg gcttcgcgtn tatcgtgtaa agatcttctt catcacggtc 3660
 ttcagcgtac ttcccgtccg gcggtgatta ccatccctcc ttgaatcgag gttagattct 3720
 gcggatacgg taaccgtgga tgtccaactt gatgtcggcg tgtgg 3765

<210> 1720
 <211> 3624
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1720

tagcacatat ttgttaacct tcaactcttag gtttgattta taattcgggt atagcttcgc 60
 tacgagccca ttcgtctcgt tcatggcccg ttctttttgc ctctccctct ccaaccgctg 120
 ttcgctcgtc tcaaacaaac ttggcagtc agtctccgta tactgagcac cctgcaccac 180
 catcctcgca accccctctg cagccaggaa aacctgaggc attccatggc ccgtaagcc 240
 tgcaagaatc cactgatttt gctccccggg aacacggccg aggtgtggga gattatcaga 300
 tgaatatccc attactgtac ctaagtaagc acgttagcaa ccagtccatt ccacacgctt 360
 cttcgcctcc tgaaactcca agcctgaagg ggtggggatc atactgcctg tccaaacaat 420
 ttccgtcact gccctagaac tctcccaacc gacaaaatgt ttctgcatat acccgtaaaa 480
 ataccttttt gcagcatcaa ggacaacgct atcatctgta acattatacc aactgggtctg 540
 gccatggatg aatgctgggt ttgcgcccgc gacaactatg gacccgtcgc ttcgagggac 600
 aggtagtcgt agtttacggt gttgtgccgg atcatgtagg aggttgtcag cttcggcggg 660
 aggatatagt cagatgcaga tcgagaggat gcagaagggg ggatgacaat ccggccgcat 720
 gtcccgcgaa caggaacgat gctatctctg taccgtggga tgagagatgc tgtgtagctg 780
 ttcgttgcca ggatgagttt cttagctgtc aggggtcccc ggggtgtttg tagtgtatac 840
 cccgagccag actcggcagg agagagagac agaacaggcg tatgagtctg gagattgaca 900
 tccttgtcta ctgccctttg caagaggtgc atgatgagct tatatggcca tagatgacca 960
 gctctatatg tgaagcacgc ctttgccccc ttatgccgg agacctgcaa tctcttcagt 1020
 agcctcgtcg acagtgttt tcaaaggtat tgagcacgaa catcttccgc ttcctgcggt 1080
 ccgaattacc tcgtctgctt tattggcttg acacccccg cgaccaactt atcatccccg 1140

cgccaaagga cgtccgctg gtcctcgccg agcattacat caatggcttc cgtaacgacg 1200
 aggtagcaat cactattggt ctttttgaca agagacccaa tggcatcgat gtgtcgtgcc 1260
 tcgaattcgg cgactttgga tgcggcggac aggccgtact ggctagccag ggtgaagacg 1320
 cggttgaaag ggccgggttt gaggtgcccg cctgtgtgca gcttgttagc gagtagagac 1380
 gaagtgattg tgatgatgag actgagggca aaaggagct cggggttcta taccattcct 1440
 ccccgtcgca ccagaacagg cctgtcttct ctctagaatg acgatactgg gccggtctga 1500
 gcaatcagtt aactcgagga tatgatgtgc aaatgaagcg cctgcatatc cagcaccaat 1560
 tatcacgata tcgcattgat ctggcagaaa gtgtgactg cggtggtcgt cgaggggggtg 1620
 gcttggtgcg ccagaagggc gttgttggtt tggctattgg gtagggattg gccattgtga 1680
 gattggctta tctgtaggag tccaaagcca agatctcagg gtacgataga ttttttaatc 1740
 tctttatgag taagtagcaa gccgaccggg tcttcgccg tgttgggcgt atctacaggc 1800
 cgggccttaa gccggcgtgc cggtgacttg gagtaataag gaccctgcag actgttatat 1860
 tttttcttta ttcggtctat ctttatttct tcttcttagt tggagaagat agtaggttgt 1920
 ccaatccgtt ccttactgga tagccttggg tattctgcgg gcagcgtctg atatcaagtt 1980
 ggagtaattg atgatactgt acgtgaattt ggagactggc gatcagtgtc caaatgcgt 2040
 atacatggca aatatgcatg caaagaatca attcgcatta attctcaagt atagtaacta 2100
 agcaccagcc tggcttgcaa taattctgtc cgccatcccg ggcagcgtct catctacaac 2160
 gtccatctcc ccaaacagct ccgtcagcgg ctcttcccc caaaaagacg tataagctcc 2220
 tttaaatctg cccaagattt aattagcatt accatagtat cctatcatta gaatgtagtg 2280
 ggatctactc agctctctc gcggctgaga catccacat atgccctgcg gcaaaccaag 2340
 gactctccc tccgtgctca ggcttcagtc tctccagcaa gggacgatac gcttccaaat 2400
 ccggctttcc cagcatcaaa tcacctgtcg gcactctcac gccctcgttc tcaatgtacc 2460
 cggaaacacg cttcgcacg ccagctgtaa aacaccatac cttgaaccg gcaccccgca 2520
 atttctggac gactccttt gcacctggc gcagattcag gccggcgtat tcagtcatga 2580
 tgtagttgag atcggcctct gacgcgaact ggcttcttga taccggccat ccagaacatc 2640
 cggtagaaga gtgcgcgaaa gacatcggcg aagacagtat atctgccgct catgctgagg 2700
 taggtgtact cgcgttcagc gatttcgac catgtatacg ccagcaagga cagcttgatt 2760

ccgtgttcgg gcagccggtc accgagccgg tcgtcgatcg cctggaagag gtggtcgtag 2820
 ctaatgagtg tgccgacgac gtcgaagaca acgtttttgg aggacaggat gaggcttgct 2880
 tgttcgcagg tgatcttgcg tgtgaatcta tgattaacaa tgaaatgagg gagtctggta 2940
 gtaacatgta tagattggcg tgaagagagg ggttcctcc tccccaactc ttccacttat 3000
 actccaacat ctccaactct ctaacgccgg cggatcaggt tgggtaccagg atgataggag 3060
 tgagataaca ctaagcgagc agatagtcac tgctgattct gagtccggac gtcctctgac 3120
 gatgccgttc ccggacctct ccatctctcg gcccgctcaa gatggccac gaagctctca 3180
 tacggacggt atccggtatt gagccagaaa gaaaaagctc cctggaacgc gaatgagact 3240
 gacatcgaac gtaccgcgac ctctcggttc gaggccaatg gctcgtctac cgcaatcaac 3300
 cccgacaatg tcggatacca ccgtccctc acgcggcgca aggtcatgat gacgaccttt 3360
 ggagccgggg ttgggactga gctgtgggtt ggccgccccg aggcgttgca ctatgggtatt 3420
 tttagtctct tgagctggag gccttcttac tatgctgacg gtgctgatcc atctatagct 3480
 ggtccagccg gcctcgcggt cacctatacc ctaactgctt acgtctgctt acagtctagc 3540
 ataaacatgg tcaagggggg aagtactgat agctctgcaa caggataatc gtctacgcac 3600
 aatacagctc cattggcgag atga 3624

<210> 1721
 <211> 3817
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 1721

gcgcagggtc gcattgacgg ccgcggcggc atagcggatt ttgcatggtg gtcaaacggt 60
 aagggtctta cggcagtgaa cctcaatggc gaggtgtccg agtgggacgc tcaactcaac 120
 cgcacgtcg cgcgctggaa ggacgcgggt ggcggttgta caaccgtcct tcgtctcggc 180
 ggctcaacgg agaatgactc tcttggtgga gaccgctacg tcgctattgg cagtaaactc 240
 ggtattgtca atatttacga ccgcgtgcag tgggcggtaa attacgcctc cctcctctcg 300
 aaggagaca catcaaccgc tatttctcgc aatcctgaac ctctgcgtgc tctcgatcag 360
 cttgtcacat ctatcagcca catcgagttt gcgccagacg ggcagttcct tgccatggcg 420
 agcgaaatca agaaggatgc gctgcgtctg gtacatctgc cggactgcac tgtgtaccgg 480

aattggccga cgcaaagcac gccgctggga cgggttacgt ctgtggctat ctgcgcaaac 540
tcggagtacc ttgctgttgg gaatgatcgg gggaggatca ggttgtggca gatccagggg 600
tagactgctg tactctttac tcttgactg tggctggtct tatcatggtg ctctgagctc 660
tagtacatag atgaattaga ataacagtta tttccataga aggttatttt agggaaatat 720
gtaatatgtc taacgtgtcc agccatgtct atgaccaact tgtctgcgtt cagctgctga 780
atcatgaagc ctgggagtggt cccggcactg tatacttacc tgagacccaa atatgtcatt 840
ctaaacccgc ccctcgctat caatcaaaca cccgtattat gccataacta actgaccaat 900
ccaaaattca accagcgcca aagtgcgagt gcacgcatat gcctagcaca tagccagcat 960
ggcctgcgca tcacgaatac cggccgtgtt gccagccttg acacgcttca ggggtcaaggc 1020
ggcgatgaga gccgcaccca caccagaccc atcctcggca gcatggatgg tgaccttgtc 1080
cttctcactg ggggcccagt cgaggatctc acgcagagcc tgagcaccgc gggccttgaa 1140
gtgggggtat tttgtgaata ccgagccgtc ggccccgacg tggcaagact cgatgttctt 1200
cttcttgacg attgcgga caaccagggc ggataggcga gcagcgcgag taccgatcag 1260
ctcggcaagc cggcgcatca gttcgagctc tgagcgtgtt gcttttatct tgagcatgtt 1320
ttggacgagt tcggcggctc cgataagggt ttcgtaagggt tcttcttcga tagctgcggg 1380
gaaggatgaa tcagaagggt atgggatccg cagctgcgag gtatcctgat ccttgaagat 1440
tagaccggc tgtgtgtcca aaatatctac caaggccaag cggaagattt cgcccagata 1500
cagaccagcc gtcattctct caaaagcttg ctggccggga cgaggtgaat cgcggtcgat 1560
gatgtggtcg tacttgggtga gcgggaggac aatatgttcg ttgtcaaagg caccgtattc 1620
gcaattgatg gcgacgggca tgtccggagg cagattcatg tgggccagct ttggaataga 1680
gccagcattc tccatgtatg ctgcattcac accggtgccg aaaatgcagc cgatcttcat 1740
agcggggctg gtgtaagaag aagcaatgaa ggggtccggt gtgtcgttgt caaggcagcg 1800
accttgatgg gcaggcccta caacaggaaa ggtaagcaga cgcaggcaca tgcgcaggga 1860
tcagattgtt ccataccggt tccttgaaga cttctcaag aggcgggact acgtctttac 1920
cttcgacacc atcaatgtcg aaacccttgg tccagcgctg gagaactccg tggtcgatgt 1980
agtctgagt agcagggtag gagaacgtga atcccagcgg caatttagat aggttctcgt 2040
tctcgtggtg gaactgaata aactgctcga cgcagtcgac gatatttgc cacaactcct 2100

ctgcctcgcc ggtcttgagc tctcgggca ttcggtatct ggattggatg atatcgaatc 2160
 cacctttctc ctcggtcagg gtaatttcac aaaccgcag gttgggtgcc gcccatatcg 2220
 agggccagga acgtgcccgt ttcttttccg tcggggaatc caagaacca tgtgacgttc 2280
 atgggctata ccgtagata gtcgatgca atggcgatct cgaagactta caatgttgcc 2340
 gccctcaaca gagagaccta aatgtcccaa tttaagtatc gttttcaaaa atttaagtcc 2400
 caaaccactt acccttcgtc agctcgttga cgaaatggc aacgatcttt ttaagcgtgg 2460
 cagtatcaac agtgaagatc tctcaaagt gcttaatatg ctccaggaga ttttggggca 2520
 cgtctgacat ggaacctgca atacgagcgt gcgattaaga atcaattcga gcactgggtt 2580
 ggaaggggtg acataccctt gcgagaggga gggcgtttgg gaccgactcc gaccattgtg 2640
 gcttagaata atagtagaca aatatgatta gaacgagctg gatgacagag gagaaaagcg 2700
 actaaagata gtgtgtgaag ggcaggggta agataaatag agtcggatga cggtgaggtc 2760
 aagttggaag tgggggggtc tggatccaaa atccagcaca ccaacccac actcaccggt 2820
 cgccagatac aactcggag tatcttttct agactgatct atttcttctc gagtcactta 2880
 tcgctatcgc ctacttcttt tattttctgt tgctcgcaa acggctactg ggatggattc 2940
 tctacaccgg attgatcgtc attcagtcac tggataacta cgctctgaca tcatgggcga 3000
 actttggacg gagctgtcag tccggagcca agcatgatcg ccctggtaat tatatcattt 3060
 ctcataccac tcgttatcaa cgatctctac agctgctctg cgcaattgat cccaaagccc 3120
 atcctggata actttcgtga ctgaattccg gcaaactata cttcttcctc acccatggag 3180
 aggacatccg aaatgcatat atatatggg cttcatgtag ccttctgccc cgcacttat 3240
 catacatcaa tacctcttca atagctatcg atcgggtgctg ccctttgaaa tgaatttcgt 3300
 ctacctcttt cttctggcat tttcagccat cgtctctgcc gagatctcta tcgaggcctc 3360
 cattctgaac cgctccttc aattggacat tggcttgat ggaaccttca tctcctaga 3420
 cagattcgac gatggagcaa acgtcactct aagtgtacgg ttcagtgact ctgttcgcat 3480
 tcaattcggt tactgacagt ataagtagga tattgtcgtc ttctacaaca ccgtgacagc 3540
 tccaggccaa agctcgatcc agccgttctc cagtccctgt gacgaagcga tccagttcag 3600
 tatttgccag gcataatcatt cggtttgctt gccgcgctt tgataggttt accatgattg 3660
 gcgtactgac aaccggtagt ttgccctaac aagtatcaaa ctgtataacg agtttgccga 3720

cggcgccgat gacttcgata agggcttgag gaataaccta cgggagggat tcaatcgcat 3780
 atacattgaa gattcngtat gtgtacctct tgtccca 3817

<210> 1722
 <211> 3556
 <212> DNA
 <213> Aspergillus nidulans

<400> 1722

tatgtccatg gctgctctcg ctgaaatcga tgcgctcttc ctcaaggctct tgaaatttct 60
 aaatcgctat tagtgacaaa ccaatcaagg agtttctgcg cagggcttac atcacaggca 120
 gctttccatt ccttgttcca gcggtcgggtg gtatcagcaa gcactttaac tgcggcatca 180
 tactcactgc tgctagacgc tagctgaatc tgggtcttct cgagcttcgc cttgttcttt 240
 cgctcctctt ggcccatcac catgtgacct tgcgccaaat aaccttttat tcttaggcag 300
 tctgtctcgt atcgatcccg agtctgtctg ttagcccac cggttccgcg ctgagatatc 360
 cacaagctca ccttattcac ggtgtgtgtc tgttgcatct tagtcttatg tatgcgctca 420
 atgccatttt ggatgatctt tcttcgttct ttgttaccac cggcaaagtc gatcagcggc 480
 tcttctagct ctctcttcat ttgccctgcg atggcggcat gcgctttcgc aatggcctct 540
 gtctctgctc gcacagtatc aaaagactcc cgaagagatc ccgtctcgtg tgctccgaga 600
 ggcttgcggc agagtgtgag gagcttcctg gcatactcat cttcgatcgc ggcgcggaact 660
 agcagctgtc agaacgacgg gttcgcgagt cagacctagg catgggtgac gaactattgt 720
 accaagtctt caattcatcg caagagagct tagctgcttg catgcgctct agcatgggcg 780
 caacgccggc atcatccttt cccagaaat tattggcaac tacgtcgatc ttgttagtag 840
 gtagatcctg gtagaggcct gggggctact cacaagatag ggcaaccgtg ggcccttcag 900
 aaaccgtacc cggcatcgtg atataatgtc ttgaagttat tgagctttgg ccagcctttg 960
 ctcathtagt taccgtgaga caggctggac gggtcagccc agaattgaga ttagcaaacg 1020
 cttagcaggg cagaaagggt gagtaaatac acaattcaat caattcgggtc gaacacaaaa 1080
 cacaccccaa ttgcatctgg agcagtagtg gaaagaacca gcacgaagca gctggatctg 1140
 ggtggagttg gatatggggt ggaatgatcg ctgctaatta ttacgggtgc acgtttctcg 1200
 gggcaaccac ctgagccata cctgggcagc aattggcgct acgcctgcca agactcgaga 1260

tctattcgca gagcagtgag accaactcta ataaatactt actctccttc ttaatacata 1320
tactaactcg cgtaataag ttaggaaatc agatatcttg ctggctaagt ctcattactc 1380
ggcaccacc ttgctcctg taagtgtgc cccagtcgt acgttcgcg aaatattagt 1440
ccatatcagt ggctatataa ggcaagggtta cttactatta gctggcaggg tcaagttgct 1500
acatatgcaa ttatgttacg gtcgttgtaa tatttctagt tagcgcggta tggcgcctta 1560
agcattcaac cagctatata tttctgccag tctgcggaga ggctcttggt taagcgtaa 1620
ttgttgacac agcggcaata tagattaact acgaaagga taagaaaacg actaaacggc 1680
aataccgttg acatttcgat gtcctctgtt atcttaaaaa agttttttga aatgcaaagc 1740
caatcttttg tgaagaaata caggctgggc ccgctcagta gtggacctgg gcacgaacca 1800
ttgcactact ccaacatttg atgcacctt tatcactacc gtaacattat agcatatagt 1860
cagaatgtca gcctcagaag caccggcttc atccctccgc tatgctgatg tgagtattct 1920
ccagtctctg acaccataa tgctgacttt tcgcaggtag ccgtcacttt cacagcggac 1980
caattcaaag gtatctatcg tgggggtaag gcctatcacg agcctgacat tgcggaagtc 2040
atacaacgcg caaaagaata tggctgcgaa aagatcatgc taacaacaat gtctctgccc 2100
ctcgcgcatg agaatttggc cctagtccgc caattcccag agacatgcac catgacactt 2160
gggtgtacatc cttaccatgc aaaagaaatc tatgtctctg aagcttcagg agccggcggc 2220
agaaccactg ccgatgggc caggtaacct caggaactcc ggaatttcgc tagaactatc 2280
ctcgcagagc aaggcggtgc aggcgagtct ccgctcggtt cctttgggga gataggtttg 2340
gactacgaat atattacacg ttcggacaag gctacgcagc agcgcgcttt tcgagaccag 2400
ctggctattg cggtcgagct tcaactgcct ttattcctgc acgtgcggga gtccgtgccc 2460
gatttcatct caatcattaa accctttttg gcggtatctc cacgtcgagg cctcgtgcac 2520
tcctttgctg gaacaaagga ggaaatgatt caactcacag ctcttgggtt cgatattagc 2580
gtgaacggta tctgttttcg tactgaggag caattggaaa tgggtccggtc tattcctctg 2640
gataagctgc agctggaaac tgatgcgcca tgggtgtgaaa ttcaggaagg agatgacagg 2700
atcaagcagt acctggaggg tgccaggtcg cttccaggga gcagaaaaca cgggaagttt 2760
cggttaggcg aaatggtaaa agggaggaat gaaagctgta cgattgaaag agtcgccatg 2820
gttgttgacg ggttgaaggg gatcgaggtt gcagaggtcg cgacggctgc ttgggaaaac 2880

agtgtttagaa tgtttgggtt ggggtgtgaag tcttagaggt ggtactagtt gaaaacaggg 2940
 atataacgta aagagtttgt catgattaga cctatagatt agagaagaag ggtgaattca 3000
 gatcatgcgg cagccactgc ctgctactcc gtagcgaata ccatatgacg gccaaataag 3060
 cgtatttccc attcagagta tactcttgac ataagagacc ggtagccaat aaagatgcca 3120
 ggccgagatg tggtctgtct atattaacag cattattgaa tccgaagtcc tctagatggt 3180
 ccaagcagga tgttggtcgg tcttcatgct cgacaataaa cccagcaaaa attactttaa 3240
 aactaggagt tgtccttcaa gtaggaagat aatagctaga catgacaagt gaagtgcatt 3300
 tgaatacctt tgtactgggt tatcatggag cgtgttcatc aaatggagct tgatctgtgc 3360
 cggccggagt agagccctgc gataagagtt gtttgttctg tttgtttttc ttgttgcagc 3420
 cgcacgcgag ccacgtgata aaacccaacc gtcacgtgct tacatgccga agcgtattca 3480
 gctggagact ctattcagga gcatgaaaga aaatacctag gtctctttaa cggagttata 3540
 tgatgagcgt aatgta 3556

<210> 1723
 <211> 3718
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1723

agactctggg tagtctggta ggcgatggtg atggggacgc ggcgacttag gttgctgtgg 60
 gcgacgagtt ctctggttga atcctggcta gcagaggggt tttgtaattt tgcgtcgggg 120
 gaccttgacg ctgagttgcc gatattttgc gacatttgct ggcgtgtgat tgccacttcg 180
 ggggtaggga tatagtccgg atcaaactcg agcgaagaga gggcatcaaa gaattggctc 240
 ttcaaggagc cgacttcaca aatgaaagcg tcggtaaattg tcttctcggg gtccaacca 300
 taccgtgacg cgagcatctc aatagtaaca tcacgggtca gtaccaaccg gttcagcatg 360
 tgatagtaaa gctggagctg gagcagcgtc ggtcggaaacg aggagctctt gaccgtcggc 420
 gtggagttgc tccctcgcgt cttgatgtct gtcaagtaga tccgagggag ctgctgaagt 480
 tcagcagtgg attggctgct aaccggatcc tccgcagcct gtgggttctac ctcatggcgc 540
 gacatgtccg caagcctctt cccccctgc gcaggcgata cgaagtagtc cgtcagcgac 600
 atctggtact caggcaagac agccctcgac gctgccgcct ccgcatagta agaagcagcc 660

gaagcctcga gctccatgtc gggacactca taacaaagct ggtcaataac cccattgacc 720
 agctcccat ccactagccc ccagatctcc aactcccgcg taattccaaa ctccctcaat 780
 gtccgcaatc cctgtatgac attccatata cgtagcgcca gcgcatactc ctctgctgta 840
 acctctaccg gaacagtcgt atagatctcg tctcgcgagc tcttgtgtat cgtactgccc 900
 ttcttcatcg ctgctgttct ctgcttctc ccatgttttag tgagcgtata ccagtattgc 960
 acttcgcacc aggcaggcga gatcaaatca gtgacggaaa aagccttggt cggcgggct 1020
 cgaaaacgct ccacgggcga tcgctatcg agggaaacct tcactttcga gtccccattc 1080
 cccttaatag tgtcctgctc gcgagccacg tccctttccc gctgccgctc ccgaccttct 1140
 gtggagtgg gatgctcaac taatcgcttc atagtcaggt cagcgttctc aaaccataca 1200
 acggatcaag tcccagaaaa gtgtcccat accaaacgtg gccccctac tgacagggac 1260
 ccagcctgcc tcatgtgtaa acgcgtccg gagtacctt ccagccgtct gaatctgcca 1320
 aataggatgc ctcttctctt tccccagtat cctagacacg cgctcgcccg atacatcgctc 1380
 acccaggtct tcgatatccg gaacagccgc agggacgggc tgggatggag aaaataagcc 1440
 ctgtcgcgctc gggctgtgac gaagtggag cgttgtggct gctggtgcca cagggccggt 1500
 cgcgtcaact tgccgcgagaa gctggttcaa caggtcgggt tcatcggcgc taaagtccga 1560
 tccgtagtcg ctgctgaagc tcaggaaatc atcatcgctt ggtgagggat caaatggtgg 1620
 ttgcggtgaa aatggcattc ctgtggggag gtttgggttag aggccaaggt gagagcttcg 1680
 caggggaggc agagtcatgg agggagatgg cgtcacaacg tcatccttag gtggacttac 1740
 tgggcagtcc tgcccgtctt catcatccta ataatcctaa aggatgagca gaagtaggag 1800
 acatttctgt gatattccag tcgagttcgc gtttgtcaaa tcatagacgt gcgcattggt 1860
 tttttaaata tgcggataga ttcaaccctc ttcacgagcc ttacgggttg tcgttttagag 1920
 caataaaaaa acttgcagct actagtcctg attcacttgt agcttcaagc ctattgtcta 1980
 actttgcgcc agaataggta ttgttttgac aattgtcctg cagaagtctt tgctgagatg 2040
 tctgtaaata tgtattcttt tttagtcggt atacaaccg catcagctct tatagaacaa 2100
 ggtcagcaat tacctctatc aattgttta tattctattg ccattactaa gggacatatg 2160
 cgcctataaa caagtctata gtctagtcaa ataccaaaaa accaccaagg atgcaaaaaa 2220
 cgtcgcaaaa agggctctag tgaactgatg ctggccaat ctaagcctta ataacgactg 2280

caa~~c~~ctgctc ctctgacgga gccggctccg tcaacgcagt ttcaacctgt cttgcagcct 2340
 tctgattcaa ccagctcaaa taagtctgcc acccgaccgc aatgcaacct gagaacacgt 2400
 tgcggaactg cggcgggaca tacatgaagc tgaacgccgt aaccatgggc cagaacttgg 2460
 cgctattcac aatactccga ggcagcgcga ccttcagccg ttcccatgtc tcttccaatg 2520
 atgcgccgga gagcaaagag tgtacgctga agaagtaggt gttgaagacg ggagtgaaga 2580
 cggcttgctg gacgacgact ttcgtgagga tggaaagggg tttagaggcg aagttgaagt 2640
 tgttgtggag gaacatgaac ctagatgata tcggttagcc tggcttcctg ttgacattga 2700
 agaatctctc taagagggtg tagaggagcg ggcgaactca ccagttatac gacggaatgc 2760
 tggaccaat accgacagtt agatggcgca ttgtcctcca cgggtcatac cctcctttct 2820
 tctcagcaac acctccatta tcgtcctttt cgggctgaga ctccattctt ctctgcggtg 2880
 gattttctgg cggaagaaa aactgcgcac tcagatcccc gcacagatag ataacaatcg 2940
 aactgcacac ctgcgtcgta tacggccggt tctcctgaaa tcgcgagtac gaccgcccc 3000
 tcctcccaa aggaccagcc tggattattt gccgtagcga tcgaggcgca gcccgagcgg 3060
 gaacgggcgg cggcgtaggg ggtatactga tatgcgactg cgcgggcaac tcgcttttag 3120
 gggtcgtggc atgatcgggt tgtcgttggg tgggtgtatt tgactcatat cgccgtgatt 3180
 gtaagcgcgc ttgaggggga gcagacgata tggaggggct cgggctgaga gctgggcgtc 3240
 ggatgaatgc atgtctcatt atgagaaggg gcgcaccgcg cttgcagcgc ggggctctag 3300
 ctctttggtg ctctagtgtg gcttcgtgat ctattcagga catagattgg aggacgtaaa 3360
 aacagagagt gaatgggcga aaagagcggc cggatgggta caaacaacga tggatactt 3420
 tgaaacgtgg agcgacttgt cttgctgacg aggccacgca cgaaactaaa ggagagtata 3480
 aatgataagc aaacgaaaag atctatgact gcaaagaacg agggctaagg tgaaattgat 3540
 gatcgtgatg gcgactaccg cgaaagaaaa tcggcaaact ggcagtggcc gccagaaatg 3600
 ccgaggaccg gaaaggcctg cctatcagag cgtctccaga caaaactcca aatctgcctt 3660
 acaatcttta aacctcgaac aaagagttac aggaggttga gttagacaac ggcaaaag 3718

<210> 1724
 <211> 6784
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1724

tggtttccca aggccctcga cttccgccc actatgtcaa cgttgacgat gcaattgtga 60
ggaggggCGT cttaagtgtc atgggagtgg tagtcgatat catgggtggc actgcttaca 120
gaactaacgg cacctccatg tgcataacat tcacaatcaa ggatcaaaac ctatataatg 180
ggcatgtatg ggatggtctc aggattaaat acttcaaaga atccgagcct ctgttacctc 240
ctgttcaaga gggatgatgtt attctactac gggatcttcg cgttcgtcta gccaatgcac 300
cttaacgata cagtgtctgac tggcctccca tgcagatcaa gatatggaat ggaaaagtcc 360
tgggagtggc gcctcaggat agaattcttc catgggctgt ctttcgccc gatagagatc 420
cgaccgctca tctccccgca ctcaccggtc ccagtccttt tgagccaaca tatcaggaga 480
agacttatgc ggcgacgtta ctagaagctt cgccaggtgc atttcgctct gtcactgtta 540
ctagaccaag tctggcacia gtgtcagcct caaggcccgC atcgacagct aagaaattct 600
catttcttca agatattcag gacggacaat tcgtggatct tatcggtgag ataatacaaga 660
tttatggtaa cgacagcgag aaagcaactc tgtaccttac cgactacacg aaaaatgaaa 720
atttgttctt ttacgcatca gacgatgatg atgattctgg ccacggccgc gaaggagacc 780
cttacggcta tattcagcgg caaaagaaga actggaatgg cccagtcggt cgtatgagca 840
tccaaataac attgtgggaa ccacatgcat cgtttgtccg gggcaatttt aacataggcg 900
atattgtacg cctcaaaaat gtcaaaatca aatggagccg tgtcgagcaa ggtagtctgg 960
aggctgtcgt tcatggaaat cgtgccaatc cgggcgaaac gaacgcgttt ccagtggatt 1020
ccaataatga tccccgagtt cagcagttgc tagctcgaag agaagcctat tggaatgcgc 1080
gaccaaaaaa gcagaagagg aaaccaaatg aagacaatga acggccttca aagaagccca 1140
acaaaaaaca atcgaaagta gcaccaaga aggaatcggg ccagacaatt ctcgatatca 1200
agaaacggat ggccgttaac gagcacggtc agcattttct ctcattattt ggagactgca 1260
gccttcaata tactaagcct cgttttgtca tagtcgagcc tcgcgtacca ccaagcggcg 1320
tgcacgctca gtctctcgag gctatattaa acaaccagc ccacgataac acatccacaa 1380
gcggtatcag gtaccgctc ccatttcaga atctctgcta tctcactaca gttcgcgtag 1440
tcgacttcta tccaccgcta ttagaggact ttgccgtcca taaagaacag gtgtctcttg 1500
cgtacaacag aaagcgcgac cctgcttctc gaacatttag aatatgggaa tggcgcttct 1560

gtcttcttgt tgaaggttct ttcccagcca ccgtaggaca gtcgaacgaa cgtgctaagc 1620
 ttttcgtctc taactatgag gctgagcatc tctacaatt aaacgcagtt gagtgagttc 1680
 tgagcatgcc aaggtactat tagttcacca actgaccagt cgtcttctcg cagtttgccg 1740
 agacattcag aagtcctggg acaactgaga gaaaaacttt tcattctatg gggtgatctg 1800
 gaagagagga agagaagagc tatcgaagcc ggcaataaat cttagatat agggccagtc 1860
 tcgtctaaac cgttcaattg ctgtatcatg gaatacgggtg ttaaatagcag ccaccctcgt 1920
 gactcaaaca agtgccacaa cgggcgctca tatggttgta ctgatcgaga ttgctttgga 1980
 tgggagagaa gatttggact actaaagact acaattcatg gataaccatg cacaagaagt 2040
 gttcaacgct gatatggaaa attgatcttc cagttgcttg gaagacataa ttgctgcggt 2100
 atcgtttgtc accgcatatt ttccatcata attacatagc tcttgagcta attggaaaga 2160
 ggagaaaagg tcagagcaaa agcgcaccag gcgatatgaa acagcaaggg tgtcatctgg 2220
 ataatatctc aaagccaacg ccattcatat tgttacagcc ccgtcattct tggtaaaacc 2280
 acgagaaacg cctttaaga taattatcat gaacgtgaaa ctgagagcga agcatcagac 2340
 cttggtcact ttaacgatat tggatatcaat cccgtgggca gcagtactaa accggcaatt 2400
 cgaaccccaa tagcagtctt ttcttccgac ttcgctttgg gggcaacgat ggccgtacat 2460
 aactcgggg tcgtcacatt ccagtcgta tcgacatgga gtcattcgcg cgacagctgt 2520
 tagggatatga agctcggatt tggtagttt gcgagaatgg tcgtggtgac aattctcatt 2580
 cgggcattcg cctttagat agtaataatt gcatagcttc aatttcttga tgcggttcac 2640
 ttcttcccgg ggtatgctcc caatgctgag tcggtctaca cgttggccgt acttgttccg 2700
 ttccacaacc ttaggacggg cgagatagg tttctgacgc accaattgaa aatcatcaga 2760
 gccgtgagag ctggccggtg ttgacgatat aggtgcgcta ttactggctg tggtaatatt 2820
 gtcggcgat cgagaaagcg gtgctacgtg aggattcggc gacggggtga ggagagagcg 2880
 aggtttggtg gccaccgcag cttccaaga gatccaagcg gtgttggtta tcttcgaatc 2940
 ccggaagatt tcaggaaact tagtgaacct ataatgtgtt ttaagaggtt cgagatcctt 3000
 tccgaatggg atccctcaa ttagtgatag tcgacctgaa agctccatat ctgctaaggt 3060
 ctcttccaaa gtctgaaggt atggcgattc ttctgaacaa cctaggaaaa tctggtgaca 3120
 gtggcagttg tatagatgta atttgaaggt ctctgcggca atagcagcaa ccagtcagcg 3180

caaatctcga actgcaagta cattgcatac cttttatctt atcgtgcgca gcatttttcc 3240
 ccgttccgac atcgataagg tcgaacaacg ggaagctgct attgaagcct cgaacgaatt 3300
 catcaagtag agaaggggtcc atcacaactc cggtacggat acaagcattg catagcgctt 3360
 tcatgttgac gtacattttc gtaacgatct tcggagatat aatagttggg aagttatccg 3420
 caacataatt ctccactgcg aaggacaatt ccttcgctgc tcttcgtcca ccttcttctc 3480
 ccagctgtaa taactcgctc ttaaagatca ttccgtctcc atctagaagt ataactataa 3540
 atgggttcgcg gtatctgtac gagggaggag aagagccgtc agcaattgat gcaatgacac 3600
 aatactgggt aatatctaag gagagagtgc tgaccatgat agctctagtg cgcgatatatt 3660
 gttccatcaa ctccatctca tggatctgta tgtcacgatt agaacgcttt tcacgatgat 3720
 ggtcaagttg ttcttgttga tatgcgctt ctagctcagt cacacgttat atgagtcgct 3780
 agcggggcga tgggtgcgta acacaagtag gcctggccag ttcgacaggc catatcggga 3840
 tacctcaatt aaagtgtctt tcttctgttc cacagaagtg agttgttggg agcgttcaaa 3900
 gtaagcgcg accgacatga tgcttaaaca gacaaaaagt gctattcgaa gacaaagaaa 3960
 tcattagaga gacctgaagc cggaacgtag gttgaagacg gagtatccga tccgattatt 4020
 gagaggtgat cacggagaac ttgggaaatg gcgcttatgg tagacaaggg cgaattaaat 4080
 aggagaatct gggcaacaat tcgttcattg tacttgaaca gatcaatcga gactctgcca 4140
 atgggtgttt ggttctatct attcattgct attattcacc cagtcctttt gtacagtggg 4200
 aatcgtggta tgcaactgcg gaaactgcga tggaatcagt ggctgagtca gcggagcctg 4260
 gggaagaaac gccaacgtgg agcaaacttg ctgtgtctct tccaccccgga cctttcgtct 4320
 tccccctctc acctcttgta ttcttccttg tcattctctt ctctgtcca cccgtgggtg 4380
 ttgcagatcc ggcttttcct cgtctcaatg gctcgcttcg ctttcctttc cctggctttg 4440
 ttctcggttc aggccttgat cggcgggtgct ctggcagcag tatgtttcgc aatagctgtc 4500
 acatcagcgc aagcctcaat tggatcgcta actgaactct tccggatgta ggataccgca 4560
 gataaggctg aagagacatt tgaagcgctt actcttgctg tgactgcca ggagcattc 4620
 cctgcctctg agatcttcgg cgtgaagctc gtcaatggcc accccacaca ggccttagtg 4680
 accttcacca acaatgaaaa gtctgccgtg actgttaact ttatcgggtg tactctgtct 4740
 actctgggag aggagagtaa gctgggtccg aatttgaccg cgactcgcta cggcgtggaa 4800

attccccgcg gtgcacagga gagcctgagc tatagctttg ccaccgaaat gcaccctcag 4860
 gatcttaggc tctctctcgc ctcggtcggt tccgatacag agggccggtt cttcacccgtg 4920
 tacgcttaca acggcacccgt tagtggtgtt gagccggaat ctagcatttt cgatcctcag 4980
 atgtaagtcc atgcgccccca gtatttttgt ggaatgaggg cttattatat cccttagtat 5040
 cttcctttac ttcttctctc ttgcttgctt tgggtggcgtc gtatacttct tctatacagt 5100
 ttggattgcg ccctacttcc ctacagaaac aaagtctgcc aagcaggaaa catcgaggaa 5160
 gaacgtcgcc tcgaagaaga ctgaagcacc tgctgacagc cctgctgttt catccgccac 5220
 tactacaac gccgaatgga taccgctca ccatatcaac cgccctgaag ccaggaaggt 5280
 taagggtacc tcccgtcca agtcacgggc ataaacggat tgcacccgat gtaccacttt 5340
 taaacttgag agtttccgag ttaggcgtc cgcaaggaaa gtctttttcc ataatgtcat 5400
 tttctgcacg gcaatttggt ttcaggtgcc tatcaggtta gcgaacctgt gcgcggttat 5460
 gctgagaatg aaatccgtca gggctctcat tatacattgg attccccgca tgtatattta 5520
 catctattta acttgggcgc tcattggagc tttggctcct ttcacaggtc gtttggcgac 5580
 aagcgatcac gttctattta tcaaagatgc ggttttaaaa acctgaagtt ctggtctcaa 5640
 atttggtccc agtatagtag agaatatcat ataccgtgat cctacaaagc ccgcgactgg 5700
 gtctcttctg ctactcaca atcgtttcca ctgcgcgaat tcttctcga gatgtttttt 5760
 cagcgcggtg aactgattac caaaatccc accgcagcgc caacatttaa aatctctccg 5820
 caagtaacc tgctatcgg gatcccttcg cggatcgctc cgggcgaggg gaaaatcacc 5880
 gatatcgatg aagaacggcg tactaaagct attgtagtgc ttctgtgct tgagacggtc 5940
 gctgtaccga tctacggaga taatgtgcac gtgtagatgg ttcattgacg gatgcgcacg 6000
 gattccgcac atgatgtctt gctcccagtc tctcctgca ggcagactgt ctacgggtgg 6060
 ttcggcatca agcgttttcc gccgctcttg atctcgcgca gactacttcc catatttccg 6120
 ccgaagtctg ccggcagcca aagtgcggac cttcttaact tcatgtttca ctttttccag 6180
 aaactctgtg tcatcgaacg cttcgattgg gtggacaaga gtcttttcag ggtcgcgcgg 6240
 aaggagaaga aggtgcagcg tagatttggg aaacatgtca taaataacaa caaatcgtc 6300
 attgtaatat accacagtac taggcggata caattctggg ttcgcgatgt agacgcctaa 6360
 accatctctg gcgtggaagc cgccggtggc cttcttgggg atatctttcg acgagctccc 6420

gttgctgtgt ttaggctgct tcattttggg ggacagaagc tctgtgactg gagagtaact 6480
agtcagctaa cagacatttt tttcacgaaa ggtagtgtgc agctgaaacg ctgcccgcgg 6540
gactcacagg catctctctt tacttgctgc ttctgaggtt gcgatgcaga actcggatct 6600
gcgcagcttt ccatggtttc accatctaag aacagacgtc aagtgaaagt ttcaagacca 6660
gacttcgcgg aaatatgtat ccagtcgaga cattcgtcat gctggttcat cgttgaaacg 6720
tgtgcagaac ctcgaaaaca ccatcaggcg gaggcaatct tgcagcccct caccggaatg 6780
ggac 6784

<210> 1725
<211> 5829
<212> DNA
<213> Aspergillus nidulans

<400> 1725
gacccaacct cacgtggcct ggggaccttc catggaggcc gcagccgaat caattccccg 60
catgctatca gcttttttcc aaatactcca ctatcctcat gccctctcct atctgtccgg 120
ttcatctcct aggctccgc attgacagat gatataccgg cgtcatccaa gctgagccga 180
taccctatt ttggctgagc tgagctcagg cagccctaac cccactgtcc gacggtcccc 240
ggccgtaaca ctagaaaagc ctcccaaagc cacggaacta caagcgacga accatggaga 300
ccatccagca gccatatgca aagtctctcg gccctagagg ctatatacag ggggtgcacca 360
tcttgtccaa gtcacgaat gctcctttgt gccgctactt tggcgggtctc cgctacgctc 420
tgctccatc agaacggtgg cgcaaagcgc agaagttacc cgcgagctat atttatggca 480
ccaaggaccg tcccttccaa tgccccggtg ctacaaacag atgtccacaa gcaacgttct 540
tagagtctcc ggtctcggag gctgcgacg aggattgctt tcagtgtaat atatgggttc 600
cttttgagga tcttcggca aacggtacgt accagttctc atctcgctc ttaagctctc 660
gggtctatac taagcttctc cataggatgg cctgtccttg tctttatacg tacgtactca 720
accgtttcac cgtttcacct taaaaataca gagctaattg gatactagac ggggggtttcc 780
tgcaattcgg taccccaaac tccttttccg cagcggccct cctgggtgag acagactttg 840
gcgccattat cgtcatgcca gctaccgtc tgaatgctct cggctttctc tactcctcag 900
aactagaaca agacgccact tccgttggcg aaaccgccgg aaaccatggc ttctgggacc 960

aacgcatggc tctcgaatgg accaaagaga acattggctt atttggcggc aacggctctc 1020
 agctcacgct tgctggatac tccgcaggcg cataactctgt ttgttaccaa ctagcctacg 1080
 atctaaccct cccagagtct caatcccttg tcagacgagc ctgcatctgg tctaattcct 1140
 tcaactgtaca gcctaaatcc cccacgcttg cccaaaccca gtttaaccag ctcttttcgg 1200
 ccctcaatat tccaatctcc ttgtccccag ccgaaaaact ctcccgctc cgctctaccc 1260
 cctcgtcaac cctcctctcc gctgctgcaa gtatagacct gcacgagttc cgccctacaa 1320
 ccgacaacgc tttcatccct aataacctct tccacacct cgacaacggc accttcgcat 1380
 ccaccttact cgctcgcaac atccatatca tcaccggcga atgccgtgac gaacacttcc 1440
 tctacggcac atggcgcccc ccagtcaaga atacgctcgg ctcgctgcgc gctaggctgc 1500
 tggcggatta ccccgggccc gtcgtcgacg cccttatgag gatatactac ccaaacagaa 1560
 cattaccggc agattgcaag gactggatcat ccgatgcctt tggccgaatt tacgcggaca 1620
 tgcaggcca ccgtatgcag cgcggtattca tctacgcgt caccaatccc ataaggccca 1680
 gagagccaaa tctcggcgag agagtttcta aactcatcca ccgctaccgc atggaatatc 1740
 gtcttaaagt cgcggtacgt tctactccac cgggatgggg cgtcacacac gctacggacc 1800
 agtatatctg gttctggggc aatgggcaga tcgtcctacc cgaggagaag aagattatca 1860
 ggaatgcggt catcgatccg ttcattaagt ttgtgcgtgg ggagcaggag ctgggggtggg 1920
 gggccagtaa tcatagggag atgaggacgt tgaagccgga tggaaccgtg gagatttggc 1980
 gcgacgggct ctgggacgag gcagtaagga cctggagggc gctaagggag gtcgcggact 2040
 ttgcggatgt tgagaagggc ggagctaggc tttagggtt gggatgtgcc atggttggtg 2100
 tccactagga ccatataggc agtttgacag ctaagaactg acttcatatt caatagaatc 2160
 tagacggcag aggcctattg cattagtgt gtctgtagac aggcagacaa catttcgtat 2220
 ttcgaataga acaaactctgt agtttatgag cacggaatac acaataatag gattggcaag 2280
 ttttctaagt aatgtgataa catgcatata gtccttcctt tactaggatt tagtctattc 2340
 caagcgccca tctgataca tggctaagtt tcgtggctgc cctatcggtc caagtgatac 2400
 aacaagaacc ctaagtaggt tcaattcact tctcatgcat attagaatcc gaaattgaac 2460
 tggcgtccaa gaagacggaa agggtaaaga tgagtcgagg gttcgcgcga gacagggtaa 2520
 gacagagggg gaggtgaagg gacatgaatg ggatcggcgt ataacagtag tgggtagtag 2580

tttgctctta gagaggatca gtgttgcacg gtcatggtat cgcaggtcgt gagaagatgt 2640
 gaaaatgaga aaaaaaaga aaaaggtgaa ataaaagttg gtaaggataa tatttacaag 2700
 cgaagagacg tagatcatgt cggagggccg ggggtccgat aggtaatcca ttcaggcacc 2760
 catagattga gtttgagaat gagtgttagg gctcttactc gtcctgcga ttgtaccagt 2820
 ctgaatgctg ccaactgcgt gtgtttgcgg ggtcgcgctc cggctttgtt gcggtacagc 2880
 tacgccata gcaggggagc ctccagcacc gatccggttt tgctgggaag gttggggtag 2940
 acgcatcatt ggagaaaagc cctgcgcctg gggaacttgc atgttcggac caccactcat 3000
 gccactttga gggtgaaaat tcccatcatg tgagacctga taattgggct gcacgccccaa 3060
 attaccgcc gctgcattca tagcaacctg agacatccgt tgctgctgtt gctgctggta 3120
 ctgatggagt cgttccgtgg ttagttgttt gacttgctcg agcggcatgt tgggattgct 3180
 cctttggatc tggctctgga tctgtctaata cgttgttggga acagctccac tagatagggg 3240
 gttcgggtga ccatacgtg gagaaggtgt agagacgcct tgaggtgcag agttgtggaa 3300
 gggcggactc tgcattccgc ctcccgcttg gagtgtgca atcatggccg gattgtttgg 3360
 ggtaccgttc acagtaggca tgttcagatt gggagagttg gatccctgag gtacaaactg 3420
 aggctgggca tgaaattgtt gctgagcttg ctgaggctgt tgaggagatt gctgctgctg 3480
 gttctgtgcc tgcggcggtt gttgctgctg aagcggatgc tgggaaggct gctgtctaga 3540
 ttgtaggata cgctgttgct cttggaggcg attagcctct cggatcaccg gagcggtatc 3600
 cggcgacgct tgcattgcca tgttgggacg gggggcattg ttctgctgca tgctagcctg 3660
 cggcatcatt ttcatagcca tgggatttgg agatatatga ttgtttacag gtccaccact 3720
 tccatgcata ccctgaacgt gaggcctacc ctgattgact ccaacatttt gtgggagtcc 3780
 gtttggcatt ccgttagcca atgggttggga tattccattt ggtagaccat ttgcagtact 3840
 ggtcgaaaca ggaggagcgt ttggattgtg ggggatggca tttggagctc gtccaggagc 3900
 attcatcatt tgctgttgat taggcatttg accagcacgg gccgcgaggc tcgccttaac 3960
 accacattag ccgagttgac catggagaaa gctaaatgga aactcacctt ctgttgagca 4020
 atcatttggt ggcggtattg ctctgcctc tcttgaagtt tgagttcacg ttcattgctt 4080
 agacggctga attcagcggg agatgaaatt ggaggcttcg gttgattggc ttcattaacc 4140
 tttcttaacg aagcaagctg cgaagctaaa tagaaatgaa gttagcatct tccaaggcgc 4200

tcgattgact tttgcttacc atgttgctgc ttttgcagaa ttgtctcccg ttttttagcc 4260
 aatttcctca tagcatcgag aagcgctagg tgcttggaag accttcttcg atccacccga 4320
 ataggttgag tacctctcct gcgaatcaaa ggcatcgggtt gttgattgtt accgttactg 4380
 ccctgttggt gttgttgctg ctgctgctgt tgggctgcag cttgctgcgc cataacatta 4440
 cgctgagctg tatcaattct ctgatggtag gccctgaagt acgccgtctt agacatgtca 4500
 gaaggcaacc cttctattcc tgcccaccgc tcgaaacact cccatgggtg tcgtctctct 4560
 gcgccccatg taaactggga cgacggagta agacaactag atatcagtga ccagttatag 4620
 gaatactctt caacaagact gcgaagttcc tcgtcttcag cataagtcca ttgagaagat 4680
 tgtctcgatt ccaggaaacc aagggaaggc ataggatatt cggtaggagg tctgaaaggt 4740
 tgagctgggt gaatgcgac gcggatatgc ctgttttcgg gttgaaatag ggcgacgttg 4800
 gtttgctcag gaggtagttc tacaacggga tgctcagagc cggaactgta ttgcgaatag 4860
 tcatagcgac tacgtttcct tgccggtcga tcctcgcgga acattatctt tccgcgagcg 4920
 tatttagaaa cgggaagaat ttcagtcttc cacgacgcat ctgggagggtc tttgaacctt 4980
 ggaagattcg tatctggggc aatttgaaca ggtgtgtaga tgggtaactc gtccagaagc 5040
 ttctgcgccg ttgggggtcat gtccagcgag aatgtaaatt catcagaacc cagggaaaaa 5100
 atagcagccg gagcgactgt gtctgtaaa ccatgtcgtg gctcatcagg aaacccttca 5160
 ctgaccgaat cctcctcact tgaaggcacc aagtctggcg taggggtgtga aatctccata 5220
 gcgtcgttgc ccaattccgc tgggggggaa accattgtgg cagattgcgg tccattcttg 5280
 cacggagaat cttttggtgg aattctagct tgaacacgca acatcgaccg agattcgggg 5340
 tcaactgtgaa tatactctgc acaccaatct gcacaactct ttgccgcagc aagcttccac 5400
 ttgcgttctt cccggaatc tgtccgcac catttcatat ggtctaacag aacatcccag 5460
 tgagctgcct gcctcgggtg ttccgcagag cgcttcaatt ggcgagtggt ccatctgtta 5520
 gcatgctgaa gatcatagat gcggcgaagt atacggcaat ccatctgttc ctgataatca 5580
 agaagatagt tattcgtggt taaagtctta tgcgcagaag aaagaagagc cgtcaaggca 5640
 gtaccacggg gtggagcata agccttgttt tgaataaacg tgaagagata atcccgctct 5700
 tcatttaact tgatcaaagc gccagattgt tggcggacaa gatccatgtc gccatcctta 5760
 tccggaatat aatgctgttt ggaaagacaa cagtagagaa tttgtttctt tccttctcgc 5820

gtgctcttc

5829

<210> 1726
<211> 6521
<212> DNA
<213> Aspergillus nidulans

<400> 1726

tcagaaggat gccgagtccc tgtgtccggg tcgacttcat atatttgcgg agttgagtag 60
taatatttac taggtacgga acatcacccc acggtgggta cggctcgcgt ctggagcggt 120
tccttgcttg gctgtgtgcc cgatacacgg tgcgggattg ctcttgtagt ccccgtttca 180
caggacgatg cacccttag atctgttgta tttaagtagt gggaagaacc acgccaaca 240
tctttttttt tttcatagaa ttgaggcgat atgtatgctc tctcccacca ttttgagtgt 300
tgaagtctat cctgatatcc cagtatgcaa ttgtatcggc tccaaactct atcagcaagc 360
gatccatgca cggccttact tcgccttgga agtgggatat ttcgagggcc ctagctacta 420
cttttctaaa ggttgaccca aggaaatatt ttagacctgg cgtagtaaca atgggacctg 480
taatagtttg ctgtctctga cgatgatgca agctagtttg taaaaacact ttattacaac 540
acggcactat cttggctgca tcctcagaat atagatactg ttgtgcgggg gcgggggttg 600
ctagggtttt actgggaatg agtccgaatc aaatcttcaa ctgaagcaaa tgcgcactgt 660
caggaatatc taaattcaga aattctaaaa gaaatcacgt aaacaaacac tatgatatgg 720
caatggtcgt cgcaaaaagg ccaccaataa tagaagccac agtgatcgag ttttgtattc 780
tttctcatcc aatgtatctc atcacagcat aatattcgtg gcatattcag accacgtaac 840
tcaagcaggg cagaccataa agtcgcgagc gttcttccat cctaaagtat tcgggtggcg 900
gggtagcgta atactatatt catcgggacc gacgaattat cccctgttct cagtctgtcc 960
agaaccggcg actgctctga gctcagccag cgtatcgaag atctgttctt gtgaagcgcc 1020
tgaacggata aactgaaaca acctgtcgac agccccgggt tcgccgtgag aaacaaagtc 1080
aaggaggcgt gcgaggaatg tcctatagta ctccaaggat tcaatctccc tctcgatggc 1140
ttggtgcccc cccgcctgct cgttgttgta gccggttccg ttggactggg aactgacagg 1200
acgtttgcta tcagccaagc cgtgggagac acaagatcgg gcttttgcga cgaccagagt 1260
ccaagaagcc cgctgggggtg gtagaaaggg tgggacaaag gaaacctgag aacctacttc 1320

tgtcgagaag cctgcccgtt agaatcgaat ttcgctggtc catgttataa gagcttctgg 1380
 aggctgtagg actccgatgc cgaataaata tcttagtggg taacgcaatg ctggatgtcg 1440
 gtgtgtggcg ataggatgct ttctgatatt tggcgacgat cttgaaatag tgtgaaggat 1500
 aattctggaa ggacagagca aagtacaagg tatgtttgct caggcctgca cgaacaagtc 1560
 cagcgcgctc cacggaaaca acgatgtgac gcgcttgacg tacgtcggag cgtccaatga 1620
 acggattccg agcactcgtc gctgtcacag atgagcgctg actataacgc tgactgctga 1680
 ggcggatatt gagggatgct gcagttgctg tcgagacttg aaagcattgc tccaccgagc 1740
 cgacacagtg caaagtcagg cttcataaga cgaaacaggt cagtttttgc gtggagccac 1800
 gcaatctgca gcattttctta tgggcgtaaa gacgggggtat caagtgtag gtatgcaggc 1860
 ttttgggtct tctctttttg ggccctcgga atgttctcca gtcaatcaga gccaatcacg 1920
 ggactcggct cgtccccctg agaagtcgcc acccgctgca cctgggtctg tctgagcgac 1980
 ttcgcaaagtg gccatgccgg ttggcaaccc caagctctca tctcctctga attgctggaa 2040
 gcatagttgg ctagtaggga gcataacacc tgatagcaat gcggcgatat agtactacca 2100
 ctgctcgccc gcgatctcaa atcgaaagtc gactgctagg acaacgcctt gcttccttca 2160
 tgatagtctt ctttaggagt ctcgtccaca ctccgacttg acgctgctcg tgcactctag 2220
 gcgctccttc ctcaggctgc aagagtcgtg cattacctta tttctctcta tttgccgctc 2280
 gactcaaca tacaatgcca aggcctcatc gctgatagaa tcgacttcga gaggttcgag 2340
 cagtggaaac ttctgaagcc tcgcatctac aaatcgcgtc gacatattga tgacatgtga 2400
 tcttgtttct gcgtcagaag aacctgtta tcggcatcag gaagtaccaa catgttcttc 2460
 cgcagtattt gtggcggtt tcatcaaggt aactcggata atcatcatga aatctcttaa 2520
 ttgaagggtg atctgctgac gtatcatgtt atctgaaggt caaattgcaa gattcgatgc 2580
 acaatcgcat ggacatgatt tatatccttg gacgatcgac tcggctgcca aacaatatgc 2640
 cgaagacaga aggctaggat agccgcacgc caacgttggt aagctcattg cataagtcct 2700
 aaagtgatat cggcctgcgt taaaagtctc atacttgagc tggctctcggc catgttgctg 2760
 attgagtcac cctttgcgta cgtttgagca atgagcaaga catggaggaa gccgggaacg 2820
 cctaagcctc agccatcaac cattccttcg accgccgtga aggcgagaag cggcgatatt 2880
 cttgcagggt gctcaacttt tcccatggtt catatgcat ggtatgattg ctagcatgta 2940

tcacatagtt gagcatgtcc aattcctttc tatgattccg cccgcgcagc agtgattctg 3000
 gtatgctgtc cttgacaagc aggctcgaag aatatcggtg cccaggggct ttcgagcgtc 3060
 ggttaccgta tgaaaccgga ggcaattttc cgcagctcgt ggggtcagca aacatttccc 3120
 aacactccca gccagccttc atgattccgt atatccaagg cagtttgccg aggctgtgct 3180
 tcgtcgagat gcgtcatcac cattgctacg tccaaatgct catcactc ttgaggatag 3240
 taactttggt cgccttgta tgatgtgctg gaacaatggg cgctaattgt ccgaaaacca 3300
 atcggcgatt tctatgcatg ttttcgagtc agctcggtag gtgtattaca gccgccaact 3360
 gtattccctg ccggaaagtt ccgccgaacg tgttgaccga ctggctttgc gctgtttgct 3420
 gatacctcat tgttcgtgtt gtacaggcag ggaaacagat atcagggatc aatttgcgaa 3480
 gatgtgtctt cggcacattt ttgactggta gttggttgga ataccaacca gcaagccaga 3540
 caaaatttga ggcgaggcct cagcgcggat atctgtcgac agccatgaat gaaaccaggg 3600
 cgaatgtgcc tagaatagct cgagtcgaac caggcttctt gtaagcaggc agtcgatacc 3660
 gattgctgtc tggagcaatg ataattccaa cgagttcgtc cgcacttaca aggaagcgaa 3720
 ggagggggag atgcgtgaga gagcagggca gaagagaagt gtggcctggc cgcctgaagc 3780
 tgcctggcac caatcggagc ggagactctc aggaaatagc ttcctcacct tgtcattggg 3840
 tccactactc acttctctggg tcgtcgtgcg agtgcaacca tggaaactg ttaatctcgc 3900
 ctaacgctca acattgacag gcgactcgtg gtgcagatgc tggaaacggt tggttctgac 3960
 cgtttgcttt agacctgggt gggattccac catgtccctt gttttcagta ttacgccatg 4020
 ggtaatgtcc tcatgaggtc gtctatggac cgcggctaga ggaacaacag catacccggt 4080
 agttggtgca gtacctctt actgcggtga ccgcgcccaa tggtggttga tgcataatag 4140
 gccgtcgatg gtgcttggtg tctggccttc gagcgagcac ttgccagaa ccaaagcaca 4200
 aaccacacgg aacaatagtg gcaaatttg aggcacaggg agcacgttct attttgacga 4260
 cccgtaaccg ctcttctcgc cttaaagctg atcattgttc cacaggcctt gcggcggaat 4320
 gaacgtcaac tcagattgtc acgtatcagg atcaaatgtg ccttcttcat gataaaccag 4380
 agccttagca aactccctac ataactactc gaagtttaca tggctctcgt aatcatgcat 4440
 tttgttgga cagtaatgat tgattagcta gctgtgttg ctcattggat ggcaggcacc 4500
 gtctcctagt cgaggccac tcgggttgga atctatttcc agcacaaggt caatcaggcc 4560

ccttctcttg ccgacccttc ttcgctacta cattgcgaga gccgcatcgc agcaacatct 4620
gacagaatgc gccgtctgat cacaacatga gcattcgtcg taacaaccag tcatgtttgc 4680
actactctta gccgcgccaa cgtgcctctt ccgccgcatg tcttagagca ctgacagata 4740
acatgccaat atgagatcga taccgccaga ccaattgaag gtgccatttc tagcattcca 4800
gaagttaacc atagtatgca aaatatgtac aggattcctc tgtcctcccg tcgcgtcac 4860
aaacatccct tgcttaccct gaaccgcgt tcttaagagc ggccttacc ctgcagcgca 4920
aaaatcaaca cgacgccatc accaaccaac ccaagtcaat aacagcgcaa taccaaacc 4980
tctcgactc gattccaagc caaatgcac atccaagctc tctcctcag catcgtgacc 5040
tttctcgct ccatcgcggt ccgcgcgcaa gtgcacaaag acccctacca tatttcagcc 5100
ttcggggcgc ccaatggcat cgacgccggg aacaaagtct gcggtggcgc gtgtgttacc 5160
gatccgaatg ctttggcctg taagcatatt gaggtgctt gttgtatctc cagtactgcc 5220
aaggctatgc tctcctttct gacaggcgat ttgcgcatat agtttcgtcc gcagctcgga 5280
tgctttgagt gctgtctctc agatgatgac ttggatcacc ttgacttcca caataaagct 5340
gtgccggact ttgatgatga cactgactat gacacggatg aagattggga ctaatgctct 5400
actattggtg ctttgaggcg atgttcagt attgatgtaa tcatgctgca agaaacaggt 5460
gttcagcca gaataatatg tataactagt cttttccatg gatcttagtc atgcaatacg 5520
ggcctaactc actagatagt gatagtatcc ctcttcaat tcatctcgtt ccaaagcagg 5580
gtcgtgcgca ggtccacttt acagaccggt ggctatgcgg ttgtagcgtt tcttgaacaa 5640
cagcgtgatg gtggttagcc ttcagagcgt aggcaattat ttgctagact atgtagtaat 5700
aggaatgata acagttcctc attcacacgc ggtcctgcc gtataattta ccccatatac 5760
ccacttggtg tgcagatttc acttagcggc aatatagacc aatactataa tcttatccac 5820
tatgaactac tcatatagga atcaatatac aaggattacc tccgttcgtt aactgtacac 5880
ttaagtgaat acctgtctgt atacatacca ctcatcacc agagccggaa cagcaccttt 5940
ttccgacaga caccaaagca cctctccca gtagatccac cagcagacgg aaaatctgga 6000
agaggggggtg tgtggggagg aaattgtgga tatgggggag ctaacagttg aaaaacgagc 6060
tagaggcttt ctacgctatg tatgccttcc cttcacctt tctgcccggc tactctgacg 6120
ttctatattg tagattcctt aaaccgcaac atctcctatc tcccaccatc taccgacagg 6180

aactcctttt cgcccgcaaa tccaaaccaa cgtcacatg gcgtcgtcaa caccttcagg 6240
 acccgcgtag ctcttcgctt cagcctatct aatactcacc gacatgcgcc acaccaacgc 6300
 ccttgctgtc aagtaatcct accggattgg aaaccagaat tctggtagct tcgttatact 6360
 gacaagaaca agggcgatta cttagaaggt aaggtaaaag tagaagtaca agttgattca 6420
 acgtgtgtgc tagagggtaa ccatagatat accttgtctt tgttaccgtt agagcaacta 6480
 ggcaattgag gtaactttct atcaccaaca ttatcgtaga g 6521

<210> 1727
 <211> 1815
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1727

acaaggcaat gttcagagcg gctgaccagc tgggctgcta cgatacgccc atccgatccg 60
 atagtgaacg atttgcaggg gaacttggag gcatcttgtg acgcagatgt aaaggtatca 120
 acatcaatga tgttgggtctc tcctgaagcg ctgaataccc aaatgcgagc gcatccgtga 180
 gaagactgga gggctatttc gaccacgttc tgtaccggc caatttcctt cccatagatc 240
 ttgaacggcc acatcatcgc agtgggtctg tagctgacgc tcagaagaaa ctcccagtct 300
 tcattttggt tcgatgtcag actctcacgg tgaggctctg ctgattgaat gagaaagaaa 360
 tctcgtgcaa ggtcactgtc ggccatcacg ccgtcacctt gtctctcacg ctcatctctc 420
 agcacgttga atacatccag tggcacggag tagaaaacca gcctattccc ataagcagct 480
 acaatgcgaa gcccccaact gaggtctgag cctgatgcga agaccgtggg cacgggtgca 540
 tcttgagatc cgttaggcgt atcattcttg aatggaggaa cacaacaag cgccctcgtg 600
 aggcacgttg gtccatcaag cggagcattt gacccaatgc agaggtagcc gctccgtggc 660
 tcgacaaata atagatggat gccgtcgttg actggaaccg cccgataatg gtgacactgt 720
 gtcgttcgta ccaagccaac ttgatccttt cgctccggtg cccaccgact gaatgtttga 780
 acatcttctt ttacagtgtg gaaagggcaa gatggatgca attctccggc tgatagagtt 840
 tgacaacggc aaccctccac ccctgggcca gccactgagg agatcaaccg aaattctaata 900
 ggagtatcca ggcgattcgg catgaaatgc aagatctccg agggttgtga catgggtaga 960
 tattttcgac aatcgatatt cgtctcttga tcaaccagc gtaactcaat tccagattca 1020

gagccgaacg cgacacagcg ataaccaggg cagatcgata tgctcagagg tggatcatgg 1080
 acagagcata cgctcgtaaaa gaagtgtcga gatgttattt ttttgagaa cgcactcgcg 1140
 gagtgtcgac ctctcgaca gcagctattc gtcccgttgt gaacaaaatc cattgaacta 1200
 aagtttctc ccctatcgac tggagcaagc tcgcaaatcg ttcccaatct attgcgcaac 1260
 agagctgcaa cattgaaatt cgatgtgctg gtgtcaatgg tggcggacaa aacctctgtc 1320
 ggacatgtga tgctcgaca ggcgcaatat caacatttcc caagtcctcg ttgaacatcg 1380
 gcgcgaatcc cactctgcgc ctccaagtag ctgataagtt gaatgtacag cctgaatcac 1440
 agcagcttgt tcctgcagtt gatacgtaa agccagatgt gagccacaca tccttcgagt 1500
 caggataggg gtaagacaag tcgcaatagc tggatgtttg gcctgcttgg cagagttgcg 1560
 agaagtgcac aacagttgtc gtctcagaac ccagtccttt ggacattcat ctttcggcgt 1620
 gaaagcatac attcagtcgc gacccgtttg ctcatattc agactgtgct ctctccattc 1680
 tgatccatct cgctagcacg ttgaatcttg ttatccttga gccaaactgtc ccaccagcct 1740
 gcccgctgta gcatgctatc cagtaatagt tcgttcaaac tggcgcgcac ccattgcgaa 1800
 ggatctctcg gggaa 1815

<210> 1728
 <211> 5915
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1728

aaccacgttc aaagataata tgatatatat agattttagt tgctattggg aatattatga 60
 tattcggatt gggtaaggcg ttgacgacaa agtcatctct ttgacagact actaagatat 120
 aatatcatgg tcctatctct cagaatgcac tgtgagacgc cataacatgt ctgaagctcc 180
 ctgaaacga ttaataacga ctttcagctt gcgacaaatt gggcaattat acttgagggt 240
 ctttacatac gcatctgcca gggaggctta atctatactc tttgaatgtt cacccaaggc 300
 cgccaatttc acagtctcat tactcgagca acgaggatgt ggagggtggt ggcggccttg 360
 tcgagagagc agaaggaact ttcggagagt ggaagctcaa ccgtaaaaaa ttctttgaaa 420
 tcaactggag tccagtcac gagaaaatac agcctacatg tgaagacggt ggatctgtct 480
 tgtgacctga cagataagtg tgtgtatctc tgagggttgg tcgttgccat aagtgtgtt 540

gctaagtata agcttgtcga tgttgcagga gagctctact cctccatgct ggtgattcat 600
tgcttgtacg tcattaccgg ctagatgggc aaaacagata aatagatagc agacaaaagt 660
gtgattgctg ctacttcagt gctgtcacca ctttcctagc tcaaaagaag ttgaatggcc 720
caattagtag agcaacggag ccctatccag tagtgagcct ttcagtgttt gctgtcgatg 780
caagctgccg ctagagtcac ttgccagata atttcggtga atcaaggcta gttcaatcgc 840
tgagaccgca ctgatggcac tgtttgggag aagaacatga gagtctctct ccgcaattcg 900
caaggacggt attcattcag atgcctaata gaatgatgtt cgaaagtaca cattgaccct 960
gcccgggctt acccagtcac aggtaagatc atgaaggatc cgagatctgc ggaaaggggc 1020
gatggcgga gtgcgattgg tttgggtttg gctgatacgt attaatcaaa gtgtaagaat 1080
ggtaagtgat atagcctact actgtgttgg ctttctcgtt acaatagcaa gttgatccaa 1140
tatctggggc ctggttcttg aaaggcagag gtgtttgacc ataaccgtca caggtgcggc 1200
ctgtggaacg gcatttaaaa catgaaggga gagataaatc aagtacagcg agcttcagca 1260
tcagttctag aatttaaaat caatcaactg ttcagtatca gaacaaggag catgactgac 1320
ttgcaagtct tacagcctag tcttgatttt gggtcgaatt taatcacatc catcacatat 1380
atgctagctg gcaaaattcg ttatacgcgg tgtttcaagc caagaataat cccaggttca 1440
ttgtcgtgta agccccaagt gcatggggcc ttggctttga aagcaatcac tataacgtac 1500
catctggata acaagagaat cgtctattcg tatgtttgtc tgaacaaaga aaaattcctt 1560
cattcctcac atccttcgca agatgctcga ataagaaaga caaacagtgc cctgcaacta 1620
gcctggagaa acaccaagta ggcgaagtta agctattgat tatatagatc ctgaagtaga 1680
ctaagcgcc aaattggata tttcgactgg tcagctcgtg caagaggggt ctaagtatgg 1740
aaatcttgat gagggaaatat tgagcagctg agccactgga ctatcgcggt gggttactagc 1800
gtcaaacttg gtaatctaac cacagtctgc aacgaccgaa tgtactgaag atcgcaatct 1860
ccaaatacag tttgtcgtgt gttttctatc cattgatggg cctcttctgg tttcatgaac 1920
gataatgcta gggatgtttg ggaatgtaag gggttggcat cgacgtgctg ggtataaatg 1980
gcctggctgg ctaccacact actcaaatta cctgccacct gatattactt ggtgcatgaa 2040
tattttagta tgtaactagt tttcagatga atgcacttcc aaaattctaa tagacagcac 2100
atataattgg ctagtctgta caagtgaagc ccaggagagt attacaattc ggtagaagga 2160

atgcaactgc ataagaaacc ctgtagtaaa aactggcgggt atcacacatc tagcatatat 2220
agttcgctga tgttgtcatt gtgttggtc aatgatcgat tccagcattg ttttgaagac 2280
gataaaaata aagctcaatg aggaaacctg tgcagataat cacgaacca ctcgtgaatg 2340
cagttatcct tgccgtgagc tggggatgta aagccgatac ttcacatggg caggggaatgg 2400
tttatggatt tgaggacgtg agtcctagat tgttgctgaa ccacatcttc gcgggcttcc 2460
aagctttctg acaaacttta gattgaacca tcagccggcc taacatgggc atcatgttat 2520
gatgacttta aatgctctcg actggaagtc cccttggact attcaaacag aagtcttggc 2580
acgacatcga ttgctttcat gaaactccct ggaaagaatg ccactgtcga gtccccgagt 2640
cttgtaatca tccctggtaa gatctcgaac ggatgatcat gcatagttgc ctggattcca 2700
gtggctgggc tgacatgttg ataggcggtc cgggtggttc tgggtgttgac ctctcctta 2760
cataccggga acttttagag caagacttcg gagagcggta caacttcgtc tcgtttgatc 2820
ctcgcggtgt caacaacagt ggtttgcggc ttgactgctt ctcggggaac gcggaggcga 2880
aattagcctt tgagcggctg cacagaatag gcgttactaa tatttcacg actttgcttg 2940
tagagaattt ctattcaagc tctatctacg gcgagtgggt caacgatgct gtcgggaacg 3000
aatctcctta cggatattac gtgactacac cggccgtcgc ccatgatctg cttacattca 3060
tagaagcaga agctgaggag gccggtaagt ctccttcaga caccaaattg tgggcttatg 3120
gcgtcagtta tggtagcgtc atcggcagca cttcgccttc tatgttcctt ggccgagttg 3180
ggagaatgat cctcgatggg gttttgaacg cagagcaata ttataacaat gagtggaaag 3240
aaaacgtcga tcagatggac gaagccatcg agaagttctc gagcttctgc cattccgcag 3300
gtcctggaaa gtgctctttc tggggcccta cgccagccaa tatcacggcc agagtggacg 3360
aaataatccg tcagctccaa aatcatcccg tcccgctcag catggtccga agtcaagagc 3420
tccaacaat ggtcacctgt tttgacctaa aggtctttt catcaatgct ataaactccc 3480
cactggcaaa tttcccaggc atggcccatg tgctgcacca actcgagcgg gggaacatgt 3540
ctgctctcgc gggcacattt gacgggctgg gctatttatc agatagtcgt ctgactatcc 3600
agtgcgccga ttcgtatcgg agcaacaggc ttaccacatt tgaagagttc aagagttacg 3660
tcgagtacac gacttccaag agcaggtaca ttggtgacat gtacccctt gccctggacg 3720
gtatcttgtg tagatcgttc agaccgcaat tgcctgacag catgatggtc cagggtagaa 3780

agccccctctt tttgtctctc tcttccccgc atgtctaagc cccatcttgg ttgaagaaag 3840
 atgcttctat gaagaaagca aaagctgacc catttctttg gatgcaggcc cagtcagtgc 3900
 actagatagg cctacggcct tcccaatttt attcacgagt aataccgttg accctataac 3960
 gcccttgatt tcgtaögtct tggccatcgg cgtcacgac gagtatgttg ctaattgagt 4020
 tcacctcatg gtagggcgcg caagatgtcg tctcggtttg ccggatcggg acttctattg 4080
 caagaagccg ttggtgtaag ttgctgttcc tccccgtact taatgacaca atctagaaca 4140
 aaagtccaag ctgacctcgc ggaatctttc tctgaatgca gcataccgtc gtcctaagtg 4200
 gggcatctag ctgctactgg gggcatgtta gggcatacct ccagggcata cttccacctt 4260
 ccaatattat atgcccgcag caatatatcc cttttttaaa tggccctatt gggcctgtct 4320
 agatttatca aagcctgaat aagatgacca gtagattcta gaaggaaatg gttagtgcac 4380
 ctaacacatt agcattgaag aacttttccc gtaactttaa tatacataca taatcatgca 4440
 attggggaca gaacgggtcaa tattgatctt gagcactcca aaagcccata ctgccttgag 4500
 cagtactaat actttcggca aaaggggtat ataattgata tatatcaciaa ggtgtcgggc 4560
 taaccgataa tggctaatta aaactggaat cacacatcaa atttcccttc cgaaaaattt 4620
 ctattatgct gttttgaaat ataccgtgca ctgaagcttt gctagtaagt acagattatc 4680
 tgtcgggctt ctaccgcagc attttaggta cgatgcgacg aagaaggatg aactggcagc 4740
 gcattttggt atgattacaa gaatcctgcg gcgagaatca gaggggtgctt tgggggtatc 4800
 ttgactgtag atatgacatg gagtggcaga aaactttcta gcttagatgt tcttctatat 4860
 agagttacat attcgttata aacctcgtac tgagattggt cccattataa tcgaatctgg 4920
 atcaggtggc aagaccgggg tggctctgtt ttaaaggagg tcatcattcg ttttttccct 4980
 tgcctatgat gacgctctgt ctgtccgtgc tctctcggc ccttgactta acgattgtta 5040
 ctctgcagt tccagccaca gttggcacgt tcaagaccgc cgccgggtata tttggatgtg 5100
 aagcgcttat acgctagcct acgcagccat tactcctggg gctcagtctc caatatctgg 5160
 ggccggaaac ccattatgct cattgcagcc gctgtatttc ttgtcgggag tttagtctgt 5220
 gcacttgtgc cgcatatgga tgttctgata gtgggccgtg cgatccaggg attgggcggc 5280
 tccagaatgg ggataatggt caacattggt gtcagttttc gatatgttct cgttgtgaga 5340
 tcaggtgttg tatctgcaat aacttcactt gtttgggcgg ttgggagtgc cataggactg 5400

gttttgggtg gtgtttttat gacgaggctg aggtagggtgc cgccctgttt gaagtgacga 5460
 caaggctgac aatgaggtag ctggagatgg tgtttttggga ttaagtgtga ggcactttat 5520
 tcaacgcggc ggcccgaagc tgacaattcg aacgcacagt accggttgga gctgtcttct 5580
 ttcttgccg actcttcatg gaaagtcccg agtcctcgac caccatcgc cgccggtctt 5640
 agggctcatc actggacagg cagccttttg attgtagggg gctttctgat ggtcctactt 5700
 gcccttgact ttggtgatga cgtctactcc tggctctccg ccacagtcac ttgtctgtta 5760
 gtttttggaa cggcagtgat ggcgctgttc gtggtgaacg aatggaaaat agccaagaac 5820
 cctattatcc cagtttggct gttcactcgc caacaagat agcgccttat gttgtcttcg 5880
 cgtgcaaacc atatgtgttt atttgacagg catat 5915

<210> 1729
 <211> 3247
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1729
 ctctccttgc tcctagcgtc ccatacgggtg ggaccagcgc ccaagtggaa cttccagaat 60
 ccctccgcaa gtgtcccaat ctacagcaac gtgctgcgtc ccagccgttc attggctcgg 120
 gaccctataa agtacggagc agccagagct aggatctatc attcacccta gcgtcttatt 180
 atttggttgc aaggacccgc ctgcgtgcct cactatcact caaacgggccc tttcctccaa 240
 agagctctcg ccgttcgggtc tcgtggagag ttcgattcgt gttccagaac ggatcctcgc 300
 gcccttatt tgtttgcatg agctggcccc tttagaagcg gggatagctt gttcttcggc 360
 gctagctcgc aactttatat aacgttgggg ctggagcgaa tgccatcatg agtccccca 420
 atgcgagctt tcctctgccg cctgctcccc gtgtagggtt gctagacaca agtgttttgc 480
 gactgcttcg gtatcagatt tcttctactc tcgtggagat agtccttttt gtcgcgtcga 540
 ctttttcctt tcacgctttt gacccaaacc cgaaagtga ccagggcgag gtagtttttt 600
 tgactgcctg cattatcata atggttggct gcggactcct gtcttcgctc ctgcagcgcg 660
 caaatccggc gcgatcgaac aaaaggagac gctttcgccg ctctctgagt gacgttcaca 720
 aaggttctgg cgggacgggtg acttcgtctg acgaagacgg ttatgaaagt tcagagtcac 780
 ggcaacatgt tgcggaaact cgccaaaacc aagaggtaca ccagaaaggt gatgagccgc 840

aggatggttaa atttaccttc agtaacttat caggcaatgc taatcaatgc tcagcgggtca 900
 acacagaccc tggactcttg aaaaaacatt cgctgtacct gtcttataag acatccgtcg 960
 ccgaatatcc ttcaataagg acgttcaacc gccacatcc gcagatggac aagttaccga 1020
 ccacgccatc gccgattccc ctcttagtat tcgtacacgg gctaggtggg tctctggcgc 1080
 agttcaacca tctctcaca agcctttcaa atgtcgggcc ttgttttggg atcgatttac 1140
 ccggctgcgg gttgtcatct tttgcgccta ccgctggga tgcgtacaca atcgaagctc 1200
 tagcggagtt gcttgccaca gctattgacc gtcacgcga taaagaggct ggtcagaaag 1260
 tggttctgat tgcgcacagt ctgggatgtt ctctatcagc aatgctaaca tcctcaacct 1320
 caccactcaa acatgagttg aaggatcata tccttggcct cgttgctatt tgcctcgcg 1380
 catcacctcc atctcccaag gaagtgtcgt cccatcgctg ttgctttat atccctgatt 1440
 cgatattcaa tctctggcga cgctgggaca gacgcggtgg cctgtacagc aatagtgtca 1500
 ataggctcgt tggcgcaggt gccgatgagg aaactcgag ccttcaaate cgtttcaaca 1560
 aacaaagcaa gactcctgtt tggaagcgca tggtttgggg cactcttcct tcatattccg 1620
 gacctaatag taaacctatt agtggctctc ctggacagga gggttgggcc ggtgtgaaaa 1680
 caccaattct acttattggg ggggaatcgg acatggtgac aaggccagtc gaactccaga 1740
 agcttttaag agccctcggg gacactggta atgataaaac catggacgaa gatgcagatg 1800
 gcagcgttgc tgccctccgaa gcttccatgc ttcccgactc tctggctcac gaggagaagc 1860
 tcggcatcga gccgcagctt aaggagaagg tcacaaatga gtccaacggt ttaccaagaa 1920
 gcaaacgctc ggttaaaaca gtcaccttc cggcgccggc atctcacgcc ctctgtacg 1980
 accgtgcgac ataccgcact cttgcaggta ttatccagga cttcgtttcc caacatgcag 2040
 accacaggct gaacctcggg tggcaactgc aatatctgaa cacgtcgggt aaatgggacg 2100
 tgaagaatct ggcgaagtgg aagaaggtgc ctccagtttc cgatcgtatt gccaatacat 2160
 tcgtcgcgct caagatgctg cgtgaagtcg acgaagaaca caaccagtt ctcttctcaa 2220
 aagcacaccg cgataatct tacactgtga tagatatcag ccacgagagc cctgtctaca 2280
 acccagcttc tctggaggct ggcggcattc attaccaaaa atatccgacc gtgtccaaaa 2340
 ttcctccaac accagatgaa gtccgcgact ttatcgcgct ggtggatcgc ctgcagaagg 2400
 agatcaccga aaaaatggag aaatctaata ccagcggcgc cgcccgtctc cggcctgtgg 2460

tcggtgtaca ctgccactac ggcttcaacc gaaccggctt cttgatcggt agctaccta 2520
 ttgagcgatg cggattcggg gtccaagaag ccattgatga gttcgagaag cgtcgtccgc 2580
 caggaatcag acatgcacac ttcattgata cattgtttgt gcgttattgc gttggcttga 2640
 agagggcacc tacgctctga gtgtttcaag tataatgttta ctttctttct ttgccttggg 2700
 cgctggcggt cgatatcaca ggctactgtt tgactgtttg acgagttatg atgatacctt 2760
 atcttatgtt gcttataaac tgtacaatag atgaattggg gattccaggt ttggttctta 2820
 tgttacatag cgtgtttctg gacaatgggc tgtaaacgga ttcttggaca aatgacgctt 2880
 ggaaaaccgg cttggacgaa gctgtagtac tagcatttca ttgaagcagc agagtagaaa 2940
 gttggagtcc ttggactgtg ctgctccatg gtttcttct acggccaggt cactggtgca 3000
 gtagagtcgt gagcactaag tgatgagatg atatactgta acaatgtggt attaaatgcc 3060
 acgtcagata accgcttgac gaagagtctg gtaggatgaa caaaaaata tactggttca 3120
 aagggaacgt cttgtttcga cgattctcta caagttgttg acgaaggcca ggccggaaaa 3180
 atggtgtttc taattgtaat ataaacattg aataatgcat atccccgcc aaagaatatg 3240
 tgtttct 3247

<210> 1730
 <211> 1219
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1730

gatataagta agtttgcaat catgcactgt gaggaactga ctagtaagga tttccacagc 60
 ttgagaagca cctgtccgta agcacctacc gcgctagatc ggcatcgat tggttcacag 120
 ggtgcatcta gtacatcgag ggatccgacc cgcaggcatt ttagcggcca tcgacactca 180
 cgaagcaagg aggagaaggc aaacgctgct ggagacctcg ctggataccc cgatcgctct 240
 tcaacaggcc gtgatgactt ttccgttggc ctacgtccgt ccagggacgg tagcttaggt 300
 ttccgacccg cagctaactc gtctatcaat cttgctgggc gtcgacgag cccacgcca 360
 agtctccaga gcttttatac taaggattct ggccaaggct cccctggtgc accttcttct 420
 aagcgctcgt tcctgggaaa actccgccga cccaacctta agcattttcc agggtcacaaa 480
 ggaccgacag atgctattag gggcacatca aagcttgac ggcgtgatgc ttcccctgga 540

cgacgaggac ggcaaggcag tctggagggga gcaccttcta agggcgctga aaatggggaa 600
 catgaacgaa agaaagatgg caaaggccta ggaattgcga ctggtaagct gcgaggccgc 660
 cgcggtgctg gtcacgaaac ccccatcgga aaggagacga acccctcaga agcaccggt 720
 gtctgggctt tggacacgga tctatcgac atggaaggca tcgttcagcc agctgcagat 780
 gatggggata agacgaatga aggaaagacg gtacgccatg atgagaagag gctgggggac 840
 cagctagggtg ccggaaattg ggacgctcct gagagctggc atgtcaaacg ccaaagaaat 900
 gaggttttgg ccaaagttcc caagatgacc aacgatgctg ctcgaacaat agctgaacct 960
 gatggtgttc cgtattttat ccgtgtgttc cgcattgatg gaacatttgc cacactctcg 1020
 aatgggttac atgctacggt tgccgatgta cttctgtcac tgggaaagaa gtcttttcta 1080
 actgaccacc tcaataacta cgaaatagtc atgcgcaaaa atgatatctc tcgacagctg 1140
 gatcccaatg aacagcccat tctcatgcag aagaaattac tcgaacagat cggctatact 1200
 gagaaggaca ggattgaag 1219

<210> 1731
 <211> 2589
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1731

ccatgatgca atccgattct tggagacatt gggctaggca tcacctgttg agtttgctgg 60
 ttagaact gctcgtagtt tggcggcatg gtatgactgc ggaaggccgc tgactgccgc 120
 agggatttgc agaagtaggt accgtggtat tcaattaggt ctgccgggga ggaacttacg 180
 aagacgtgcg cagcagtttg gcattttgag cacgatagcc aatgtcctgg cgactcaaga 240
 atcaattgta ttccagtgtc aagttagaca cctgactctg cgggccaaaa aacacggacg 300
 atccccgat taggtaagca ttatcacatg gaaacagacg gtggtctccc tatctcctgg 360
 atgacgtcgc ggtagttta ttgctcagtt gggggtgctg ggggcttgcg gaaaatataa 420
 ctctcatcc gttgcacaag atgaacttct aaccaagtta tgcactcag taactagcta 480
 actgttgatc tgcactcgtg gatatggccc gcgttcatt tattggacga cttttctggt 540
 ttgaatacct tactttgttc gggtcgttga ttctggtgct tctggaatgg atcattcata 600
 tcattacctt ctgtcttcgt acgttgcata atataatgtc atgctggaaa agaaattcac 660

taacgcgaaa tagctgagct aatcatcaac ttttgctatg agcggtcgaa gactatcttc 720
 aacttggtca taaccctga gagaccagag aagcagggga ggaggaaacg gcgtgcaagt 780
 gccgttgccc acgcctctga tttcgcgga atatgctcca tttatggta tgaggcggag 840
 gagcacatcg ttcaaactgg agacggatat ctgctgggtc tccaccgact accgcatcgc 900
 aaaggcgagg agtctcaaac tgtcaaccaa ggcgaaggga gcacaaagaa gaaagtcgta 960
 tatctccacc atggcttgat gatgtgcagc gaggtttggg tctgcttgac tgatgaggag 1020
 cgctgtcttc cttttcagtt agtggaaga gggtagcagc tctggttggg aaacaaccgg 1080
 gggaataaat attccaagaa gtctaccaga cattctccgc tatcaaacga attctgggac 1140
 ttttcattg accagttcgc ttttcacgat attccggaca gcatcaatta cattcttgat 1200
 ctgacagggc agccctcttt gtcatatata ggcttttctc agggaaacggc tcaagccttc 1260
 gcaactcttt cgattcacc ccagttgaac cagaaaattg acgtcttcgt tgcccttgca 1320
 cctgcaatgg cccccgctgc gcatctccaa tctgtcgtt gattccctta tgaaagcttc 1380
 gccaaacttc ctgtttttac tcttcggccg acgcagtatt cttagctcaa ccacaatgtg 1440
 gcagaccatc ctttaccgc caatattcat gcggattatt gacacgtcgc tctccttcct 1500
 cttcaattgg aagtgcaga atatcagcca tgatcaaaag ttggcaggtt atctccacct 1560
 cttctcattc actagtacca agtctgtggt aactgggtt cagataatcc gcaataggaa 1620
 cttccagttc tacgatgacg agatatatgc accattcagc atcgtggcaa gtgagcgatt 1680
 ctacaagcca gtcaagtatc ccacgaagaa tatcaaaacg ccaattgtct tgttgtagcg 1740
 cggcagcgat agccttgctg atatcgatgt gatgcagaaa gaacttccgc gtggaacaac 1800
 ggccaagata attacgaagt acgagcactt ggattttctc tgggccagtg atgtgtccga 1860
 gttgggtttt ggccatgtgt tcgaagctct ggatcgatat ggccccacaa aaaggcttcc 1920
 ggatgggagt gttaatgggc ttatcaatgg cgctgaaga cgtggaatga cttcacattc 1980
 ggactcaatg tgcagatgca ggggggtccac gatgttctg cgtcagacgg cggaccgaga 2040
 ctggtgctga gttgctatct ctcataattg ctgtatatat agatcctggg atctcagtcg 2100
 tacaacgcat tgtatttatg cctaaggtga cgctacattc ccaacatagg caatcaacac 2160
 aacctgcca tgaccatcat tgtgggggag ctttaatgtc gtcagcaaca tgtcgcaact 2220
 cgtaggacct tagacaatcg acgaaacgcg actgattccc atcctccgc gcgttcacct 2280

gggaaggtac ttctgccagg gcagacgtgc cgctcataaa tgtgacgagt aaagcacata 2340
 catacctatc ggaacgggtcc gcatggcccc tgcggtcccg actgtggatg gtgatgccca 2400
 aaatcctaga ggaagagttt tggctgcgtg aatgttaata catggcttta atgtttgcaa 2460
 ggctgttctt atcgggaaggg tgcttgccctg gtccgcggca gcgatgagct gtcggttcct 2520
 ggctggcct gacgatcatg cagcgatgtc tgagaagagc tcagtatgct ggtcgatatt 2580
 agtgacagg 2589

<210> 1732
 <211> 942
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1732

agtcgacgag tggagagggg agcggcagac tggatgcctt gttgccaag tcatgcacga 60
 atctttagcc agtacctcgc gtaacaacag atctctagct agccattgga ttcagcgtca 120
 tttggcggtt tgggcaagtc caagaccgtg tctggttttg ctgagggcat ctggtgacga 180
 gcatagcttt caaccatgac gacgccgcac cgatcagcgc aacaaaacta gtcagaccag 240
 cttgtattcg tgatacatgt agactccttc aatctcgcgt ttctgcgatc agatagtacc 300
 ttgccctgat tcggggatct agaatcgatc atcggctgcg cacccgagtg gactggcagc 360
 gctggtggcc tgttatcadc tttacgagta cccagcttga ttgacccgga aagctttctt 420
 ctattttcgc aggetgcct gtatacctca gcgtaacatc acaatcgaag caatatggaa 480
 gtttctggta catctgctgg agtggaatcc caatcttagc tgtgattgta ttctgtaaga 540
 atgacgtgga acttgggatt gtttcgatca ggcaactcca ccaaagaga aaaccaccac 600
 aaactccaaa cagtaaattc gacaggtcat agatccagtc tgtggaagca ggaatctctt 660
 tgccgttcgc ctggtttggt gagaggggtg ccgatatcga gacgcatcat atccatggat 720
 ctacctcgc caccatac aattcaccct ttctgacctc acaaaccac aatgactgta 780
 ccatgatgct ttagtactca ccatgcttct cccctcatga cctcactcgt catcatcgca 840
 gacgaagatc caggtactca ccggctataa gtaccacctt tatcaatctc ctccgagctg 900
 tcatcaagca cattccatca gacaataagc acttccactc ct 942

<210> 1733
 <211> 3620
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1733

```

aacaagcagt cggcaataaa acagagggga acatgccag tcctcgtgag acgtagggag 60
acacactcaa aacaagaaac tcgaaaaatc acgtcagttt gttgacgtag cacgcagcct 120
acaaaactga atgggggaaat gcaacacagc agtagtttcg caacaacgag gtcttcctcg 180
ataagggcga ccgaggatcc acaattccag atagtgtcgc ggatcctaga tactgggctg 240
tcgccatcaa ataaatgggt aataatcgag ctttgaaaaa gcgtccgaga cagttctatt 300
gcctccagtt tgagatggta atgacgtatt cgcactccag cgctgtatgt tccatctgga 360
aactgttcga taaagacaga gttcgtggta aagatacgag aatttgaatc cactcgccgg 420
atcattgtgg aacttcgaaa ttgggaccgc gaaaaaagca aatttggcca agtcgaggcc 480
ttgtcgcacg gagtattctg tcggctgctt ttacttggtg atgaggttca agtaatccgc 540
gacgataaga gttaccattc taaaagtgga gcagtgggtc agcgataagc aaaaagaaaa 600
atcaaagtat gcacggagtg ggggggacta acgcatgagg ggcgatccgc acatagtatg 660
tgccaaaccc gcgatagaac ctccagccagc cttcatcacg aacaaccttg cgagcacagt 720
caaacatgcc cttgtatggc aactgaccgc tcttgggata tttctgttgt ttttgcaggc 780
gagtcttgac aaagtcgaag ggaagcgaga ggaaactagc gaagaaacca gcgatcgctg 840
aagcagcaaa ggtctggttt tgcgctgaaa gcgatgttcg cgtcttcagc tgggcttttg 900
attccgcaaa gaaagccaac tggccgaggt tgagggccat tgcacgcacg acggtgggga 960
aagcgccagc ccacagggca gtcactcctt cggctttgga aatgcggaac aatgcgtcga 1020
tgacggaccg gtagtgagcc cgcgcctccg gaggcttgag accgtctgac tgcattccga 1080
caagggccaa atctgccggg ttaccgatca tagcggcgat accaccagct gtcaaacttg 1140
cgccagcgcg ctccggcaaaa gtcacttttc ggttcgctgt atcagcgttc ttcgttaatg 1200
ctttcatgaa agtgtcgaag aatcctagac gggcggttgt gtaaactgct tgacgcagaa 1260
gaccggcaga taaaccggtg tagagatcga gcacttttcc tgatgcgata atattacgcg 1320
cgacgccc aa ggctgaagga cggggcccg tgcgcacacc ctcgccagcg agctgtaagc 1380
gcactttgat catatcaatt ggctgaatga cgacggtagc cgtcataacc gccaaaccgc 1440

```

cattaatgaa gggaagagcg gcacgagtgt acggatggtg caagaagtcg acggcggggtt 1500
tgcccgactc tttagtgggtg gaggccatgt tgatcaggaa gcaggattcg aaccaggcct 1560
atgggtaatt agtcggtttc gttcagcagc ggcattggca gtgaggaatg agcttaacca 1620
tgaactgacc gatgatatat agcgaagggg agacgggaaa ctgacgggaa ggagagccgt 1680
tagtagagga aatggcaatc gcaagtaaca ctggacaaat tggtggaag agtggctcgt 1740
gtgacgggaa tgacgtcgag gagaggggaa ggaggtggta taccgggaa tgctttatac 1800
ctaagagcca agagaatgcc gggatcagat ggccaggcac tgctccagac cgaggacgat 1860
ggaaaagagg agacgaggag atgaagaaga taaaacggag agggagaggt gcagttccaa 1920
ggttgaggtc gttgtcagat gattgacgag gattagatgc ggggagagag cagagcctat 1980
cgctgaagga caagagagca ctgctctac taagagtagt caagttttag acagtctaca 2040
aattcaacag gaagagtccg atagcttctt atatttgcac cttgccgaca ataccctagc 2100
aataaccgag atcaggctcc gaggggtata gccagggtta agtagttcaa tacttcggcg 2160
ataggacagc aatgacctcc caaataatat tcaatctcca gactcggagt aattcgcacg 2220
ctaattgaaa taacctatga atcctgggct ggctagtggc tgtctccact gtacagctga 2280
gactgctctg aggagtgagt ccaagaaaag tggatgagt gatgagaagt ggatgaagat 2340
actagaaatg cggggatgct gttcgagctg tcggcgtgca ttagtcctcc agtctgtatc 2400
tgcaacgact gtatcttttt cccaccaac atttttgcct cctatctcgc tttattatgt 2460
catgaacagg tccgggattt atttcattac ctactacac aatattccat ttggtatcct 2520
ggcgggtgct gaactaacca cattcggtg gtcgaacag gcgggtaact cctgaataat 2580
gccaggatgat atcatcgaag cactccggc ttctctaccg acattccgcc cgagctttat 2640
cattctcccg ccggtttccc gggctcttcc cgagcgtgat catggcacca ctggaactga 2700
ttggtagtgg cactggctgt tgaggctcta gtgagctata ataacgggtt ccgatatcta 2760
gtgccgcggt ggactgggtt tgccgggcac gacggtgata ccaatagtcc acgtcgcagc 2820
ccacaactgg gtggcctttc gttgggatgt ggggtggatc aaacacgact cctctattct 2880
acagtttttc gctgtcgtgg actgccgtat ctgcttgagg tgacagtctg ttctcattga 2940
cgaacgtccc gtcctcgtga ctacggagaa taactcgtcc ggacggaccc atgacggatc 3000
ccattgatgg aacgtggtcg attgaccgt gtttaccgcc tcaagacatt tgctcaagca 3060

tctgggggcc gaggaacc gtttggtg tgattgctc gatattc atcctgacga 3120
 tgcattgaaa tgccgatttc ggaggagacc ggaggcgag cactgttgc catagtcaaa 3180
 gcagttggga tgtgggttga tactgaatgg ctaggtaggg gaggccaacc actctgcgcc 3240
 gaatacattg accacctcac aaaccttaa tccccccaa aacatcatat tatggctgcc 3300
 aggtactggc tacaaaatcc tcatttccac agggaaatcg ctctcatttc agttgccctt 3360
 ccctaaactg atagaaaagc gtacagtcca tttgctgcc atgtctgcc tccgtctatt 3420
 aaccaaatac ttcgtgcccc ctctttttca cgacgaacat tgtaactttc agttagtatt 3480
 accccccttc cctcgtcgtt tggggaatta ccaacgggtc gccaaatatt ctttctaacc 3540
 gatgggggga taggcctggt ctcccattat ggaggcaaat gtccttggga actcccgagg 3600
 ggtgctcaac tcggaaaagt 3620

<210> 1734
 <211> 5487
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1734
 agcgtctgat gtagcccttc ctgaagacgc tttgaaatag gctgcgtcgg atgagttttc 60
 tgatcagcgc cgccgacggg cttgtctgtg atggcaatgg ggacacgatc gtaatcgttg 120
 tataaatggg caagcgactg cgcaatggct aagagtaagt ggtacgtata gatatagatg 180
 gtcctttcgt tcaaagttgc ccgctcatga gggctactcc ttgtagctt gacctcaaca 240
 agtcatttct tctccctgaa acgctcccga cgtacctgcc acgtttcacc cattccagat 300
 gtgcgctagt aggcgcagac cacttgata gtcactgaa ccaccatgca gagaagatgt 360
 accacccaaa agtctgaatc acgtgaagtg ggaaaaggta gtggaaagtg ttaagagaag 420
 agcttgtcgt tcttgagcca atgtgcatct gaccactcg caaaacaaag atggcgagag 480
 gggatatgaa gaggagaatg gtgcggatac cgcattgatc gagcggaac agggcccaga 540
 atacttccaa gtcgaacaca gataagctag tgcgtgagtt gaagggtgctg agtgactta 600
 cgagaagatt tgcgcccgat caaaaccgag attgcgtaac agactagtaa cgacaatgcc 660
 gaagcatgga caaacctccg gtgcagcgca gaggtgagaa tgcgccggtg cgggagaggt 720
 tttgcggcca tggcggttgag ctgagattga ctgcagaatt gaaagaacgg acaatatcac 780

agcatggtca gggagatagc aatagtaact gacaattacc gcgccgggcg gatgcaggaa 840
 cgagtgtgat gcttcctggg aggattggct acggccggtc gataattgaa gctttgaagc 900
 ttttttgaaa gccatcaaaa cacacaagcc acacctcatt gatcagggtga cctttcaact 960
 aagccacgaa tttcgacatc acgtcatgtc atgtgagcgt agcctgcata tccgggcacc 1020
 aacaagcatc ttccaacgtc tgcacctgca ggcagctctc cgtagtatct tcttcgttga 1080
 cctcttggtt ttcttgetcc ctattgctgc gtctctcgct acaatatgtc tttcaatcac 1140
 ttgagctctc tcgagtccca gcctaccacc taccgtcggt cggatgatcc ccagtaccat 1200
 gatgatcccg aattccagcg gttgaccgag tccctatcga accagctatt cacactcact 1260
 tcaaacatca cccgcttgtc ggatcagatt gccctccttg ggacaaagcg cgacactgaa 1320
 cgggtgcgag aaagagttca taatctcctt gaacaaaccc gtaccggatt cagagacggt 1380
 ggcgagggga tcaagaaggt tcagaactgg gaagacgtca atgtatgtc ctaacagctg 1440
 ccacaactca tcattgctg ggcgctctat ctaataaact tctatgagcc ctcgcaaaaa 1500
 tggacacagc agaaattgtc aacagagttc aaggccacct tggaggaatt ccagaccatc 1560
 cagcgacggg ccttgagaa gcaacgcgct tctgcagtcg cggcacgcac cgctgtggag 1620
 gaggccgggc attcgacaga ggatgacgct cagcagcagc agcagcagca gctcctcgaa 1680
 gtagaacagc cagcctagc gaatcaagac gaagttgatt tccaggaagc tctaatcatc 1740
 gagcgtgaag cggagatccg caacattgaa caaagtgttg gtgaattgaa cgagctgttc 1800
 cgggatgtcg cccacatcgt tcatgagcag ggagagcaac tagacactat tagcgggaac 1860
 gtcgagaacg tcatgctaa cactcaaggc gcgaatgttg agcttcgcag tgctagccgg 1920
 taccagaaga acgctcggac taaggcttgc tgtttactca taatccttgc cgtcattttg 1980
 gctattatta tccttgccgc tgttcttgga tagacacttg atgatcccca tggttaacttt 2040
 cgtggcaccg gatgattctt cttttccttt tttctttgtg atatcctccg ctggttgcgc 2100
 atgatgttac cctccattac tgtgagcagc attatgatta tgaccctgtc cgttctggcg 2160
 ttggagtgga tgttctatat gcatttgta tgctgccttc atcgtggtat tatacatggt 2220
 cccaatgtta tacatattat ataattcaat gaccaaccg ataccgaaac tcctgcttcc 2280
 aaggtcatac cgcgagaaat ttgaacagag ttccttaaag acccgagaat cgctgaatc 2340
 tcatcataca gccttcccaa gaattcaatt tcggccgcac gtcaaggtaa aagctgagct 2400

tgcttgccc ggcgtttgcg gccaggccac cccggctgct cctcctgtt gactttcctt 2460
 ggtaaaaatc gatgacatat tcaatccgct gcccgtcaca tcgttccaca acccagtcgt 2520
 gtcgatcaaa aggtaactgg tatcccatca agctgttcat gcgcgcccta gggctcaaaa 2580
 attccggctc ggagcctagt ccgcgaaacg agtacagctt cggccccgcg cactttttgc 2640
 ttccagggtc cgataacggc gctttctgtt cccattccag gatttgctgc catgcgcgct 2700
 cattcacagc gttatggatt gggattatcg atgctaccgt agtcgctaata tctgacgccg 2760
 agctgactga attcggggta ttacccttac gcattagcgc ctcgaagaat tgccgttcag 2820
 aaggataaat ccagttcccc gtcgatttgt catgccccgt ttcagtttct gcgttagaag 2880
 gcgtaccgtg cgatgcagtc ggtgatgcat atggggagga cggtgccgcg ggacactcgg 2940
 atgggggtgc atctgaatcg gaggcaaccg ctcttggtat actgcttact tcgcgatctg 3000
 tggagagcgg gcggtgttgc ttcacgttg tcggcaccac atcattggaa gcgacaggat 3060
 gaggagcctc gccgggttta tgttgctgca gccatgcctc acgggttttg tgatcaacgg 3120
 ggcaggtagc cgctgggggtg gagggagggg gtgatactgg agtgcttgcg ccggcgccca 3180
 ttgagacgtt agcgtactct gatgtatgcg aaaagaagag aaaaagtga aactggaaga 3240
 agagagaatg gccgttgtgg tgcttggtaa tgcgaaaaag aaagcaaata gccggactaa 3300
 cgcagctcac cgcccgtcgg ccgctggact tactccgagc gaatctccgt ccagctgtat 3360
 atttactttt tgtgtcactt gttctcgatc cctttttttg ggatctcctg ctgctgtatc 3420
 ttcacttctc tttgtttatc tctcccaga ctatttgat attctgacac aatggctgct 3480
 gtttctgaga gcccgtcta ccgggccacc actactgcc ctgttaacat cgccgttata 3540
 aagtatgtct gaaccccgcc attgtacaac acattggctt ataccagttg tctaggtact 3600
 ggggaaaacg cgatgccact ttgaacttgc ctacgaactc atcgctttct gtcaccttgt 3660
 ctcagcgtc tctccgtacc ttaaccactg cctcgtgctc tgccagctac ccgcgcccg 3720
 atgagctgac gctcaatggc aagccgcagg acatccagtc gtccaagcgt accctggctt 3780
 gtctcgccag cttacgggt caccgacaag agctcgagag tgcagaccg tctctgcta 3840
 agctctctac cctcccccta aggatcgttt ccgagaacaa cttccccacc gccgctggcc 3900
 tcgctctc ggctgctggt ttcgcagctt tggcgccgc cgtagcagac ctctacaagc 3960
 tcgctcagtc gccaacagaa cttagtcgca tcgctcggca gggttctggc tcggcttgtc 4020

gctctctgat gggaggggtac gtcgcctggc gcgccggtga gcttgccggac ggaagcgaca 4080
gtctggcaga agaggttgct ccccaggctc actggcccga aatgcgtgct cttatcctgg 4140
ttgtgagtgc gcagaataag atcgttccta gcccgctgg tatgctaact tccgttgcca 4200
catcagagct tttcgcaacg cgggcgaacg ctgtcgtccc tgcgcgtatg accgctatag 4260
agacagctat tcagaaccgc gatttccccg cttttgcgta aatcaccatg cgtgattcca 4320
atggtttcca tgctacctgc cttgactcat ggcctcccat cttctacatg aatgatgtct 4380
cccgggccgc cgtcaggctc gtacatgata tcaacaacgc cgtcggtcgt acagtgtgcg 4440
cgtatacttt cgatgctggc cctaacgccg tcatctacta ccttgagaag gattccaacc 4500
ttgttgccgg aactttcaag tctattcttg gcacagaact tgaaggatgg tctggcccct 4560
tctatgatgc cgtgaaggac gtcagctcgg gtgtatctct cgaacaggtc gactcccgcg 4620
ccgtagacgt gctcaagact ggattgagcc gtgtgatcct caccggtgtt ggtgaaggtc 4680
ctatcagtgt acaggatcac ctcgttgggg aaaacggtga aattctctct gatcaataga 4740
gaatcagggg agcagcaggg gcgaacaatt tatgatttcg tcaatcgcat cagacctatt 4800
caaagttact tgtattcaat tgcaagccgt gcacgtttg agacgataca aggcattgatg 4860
tccattgttt cggttatcta tgattcggat tcgggtcaacg ttcgatacat caaacacatg 4920
ctacacatcc atatacataa taaacagcta gctattctaa ttcctttcta gtatacctga 4980
acaaactttt cctaacctac ctttaaggga tataacctaa cctaactcaa caatgctgac 5040
ttcttcatct ccttgatttt cggcggctcc tgacctttcc cacctcccag agtagacaca 5100
atactctccc aaaacactct ctgccgcct tgcgcaattg gaacatccac aggcccatc 5160
actgcctcac caccctgctc cccattttct ccctcttcta gctgttgctt ctgttgaaca 5220
atgaaaactt cctcctgact ttcctcacac agcttcaaaa catctctcgt agccttctca 5280
atcgccgcag cacgctccct catccccctg cgcagagtag actcaaccag attctccact 5340
tcgggaacag tcgtgccaac acgttcaatc agtcgtcgca cactgttaac caggatttct 5400
tcttcgtaga cagttccttt ctttccacgg gcccgcttgc gctcttcctt gcgccggttg 5460
cgagaactct gacgcgagga tgttgtt 5487

<210> 1735
<211> 4594

<212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 1735

```
ccatcagaac atgtctcgtg accgcaaaac ccaggcgaag gtcaagcatg atcagttgcc 60
aaaacagcgc cctgagccag aaccggatct agtgtacgac agtgctagca gtgatgaatt 120
accaacccaa gaaaatgact atgacatttc aggtgaagag ttctcaagcc gtgaaaccaa 180
ggcactgaag atcccagagc cctggcgagg gagtctctac cgtggccatt cgtcctcgca 240
gtctcgccgt aactaccgca cccactatcg gaaagacccg agttatcgga gggaatcgca 300
tcgggctggc aacaatgggt acagaggata ccgggatgag agtggtatcg acattgttcc 360
ggcggactca aagcatacta cgaaacatgc gattaggagg tatgacggta gccgacagtg 420
ggcggcccag ccaagcatcg ttcaccaaca gcctagcaaa gacgaggtag aactgcttat 480
gagccagatc cgtgaacgag cacaaaacga tatccgcagt cggatgctag gggattggga 540
agcagacctc atagatcgtg agcacttatt cgaatatcaa aagcagctgt ttagggacac 600
ccttcgcacc gagcgaatgg acgatgtcgg tctgatgaac cgcgcaaggt ccctgcgtga 660
gcaccccaaca aatactcgtg gctatctgcc gagggccctg cattattatt aaaatattgc 720
atgccttgga agaatacctt tttccccttc agatttcgac tgtcgcgttg gccctgtggc 780
cagcagtcag gtttggtgtc taactaggac aggcaaatgt tgaactgtac caccagtcgg 840
ttttcgggtc ttttgtgaga gctgcaagaa tttcagcact tgattgaggc caatgtgccc 900
aatatttctt ttaatgtggt agtttaggta gtgacgcacg gccaacacac aagaatggga 960
tgaacccact cggtgagatc atcccgactc ctggctactg gtagacgcct agtgggtccc 1020
gtatcgataa gccctccat ggtttaccgg tagtgacta ctccggctct catttatttt 1080
cgtcattcct ccttcccaac cttcactctt ccagtttcca actcaattta cctctatcca 1140
cacttctctt ccttctcaa tcctctatat acacaactag aactcaaga tgcctcgcaa 1200
atttttcggt ggcggttaact tcaagatgta tgcataagct accccgcaat gccctctact 1260
ctcatgccac agcgtatact gttcgagtca ttcctagaac caacgcagat tgcacgcta 1320
ccatgttttt cttctttaac tgataggaac ggtaatgccg agagcactac ctccatcatc 1380
aagaacctca actctgcaa cctggataag tccgtcgaag ttgtcgtctc tctcctcgcg 1440
```

ctctacctac tccaggcccc cgaggctgcc aacaaggaga ttggagttgc tgcccagaac 1500
 gtcttcgaca agcccaatgg tgctttcacc ggtgagatca gcgtccagca gcttcgag 1560
 gccaacatcg actggaccat ccttggaac agtgagcgcc gcgttatcct caaggagact 1620
 gatgaggtat gccactgaa acacttcgtg gtgatacgag cttgagtgt taaagatcta 1680
 gttcattgct cgcaagacta aggctgccat tgagggtggc ctgcaagtga ttttctgcat 1740
 cggtgagacg cttgaggtat gactcttttt ttgtttcggc ttatcccgat taccacttt 1800
 gactgggcat tcccctatgt tgagctttct accgtattaa caatgcgtac caggagcgtg 1860
 aggccaacaa gaccatcgat gtagtcactc gtcagctcaa cgcgggcggt aaggagctct 1920
 ccaaggagca gtgggccaag gttgtcatcg cctacgagcc cgtttggtaa gacacccatc 1980
 tgtctgcgcc tcgtctcact gagagcaaac gggctaattg tgttacagg ccattggaac 2040
 cggtaaagtc gctacaaccg agcaggccca ggaagtccac tctgccatcc gcaagtggct 2100
 gaaggacgcc atctccgctg aggcgctga gaacaccgg atcatttatg gcggctcagt 2160
 gagtgagaag aactgcaaag atctcgcaa ggaggccgat atcgatggct tcctcgtcgg 2220
 cggcgccagc cttaaacctg cctgtacgtc tttccctccc cttgtcgttt cttcggagt 2280
 cattgttgc tactagtact tagtcgtcga tattgtcaat gccgcctgt aagcttttgc 2340
 gagaaaagta atattacata aaaggcaata actatacaat attcatggcg attggatggt 2400
 caccttttga agatttggtg tcgcaacgat tctacaaaa accataggca gctccgacat 2460
 gtaaagagga agcttgtgta ttatcgtcat actacttagt taaaaataaa accgtgaaaa 2520
 attcttattt actggcgccc tcgctctag gtagtaattt ctttaaaagc atgacaaggt 2580
 atatgcattt agtataatcc acccacatcc tagaaagccc ttaggaagaa tacgacaccg 2640
 aaacaccgac accgcgccag tacgacgtcg gagggcctcc actgctcccc tgcgcacctg 2700
 ccgtagcttg agaatttgca tacgaggaag gtgagaacga actcgggtcca agcccgacac 2760
 cagcgtcac aaggagctcc ttaactcggc cttcccagag aaggcgtaca ttccaagact 2820
 gatcaactcg gaccttaagg actgattctt gggtttctt ttcgctaggc gtgattgggt 2880
 ctggcacctg ggaagaagcc ggaatgtccc agatgcgagc cttattgca gccattcaa 2940
 ggccatcggt gtctactatg gcggcctttc ttgactgtcg ccagagtgc aaccctgcca 3000
 ccatttcgct ttcccagctg tagacgttga agccgaaacg ggagctgaag gaaagattgg 3060

gagaagcccc tacggagtag gacgttgaga gcgatccggt caacggagtg agtgtgagtg 3120
ttaggggtata tgggaaggta gaaattgggtg tattgggggtt gggcgtcgat gaagtggccg 3180
ctggtaaagt gcagaacctg aggccggtcg acatgcctat taatgatgat acggggagaat 3240
aataggcctc tgcaccagcc gatagcaggg ataaccgttg cgcgttggtta ttgaaccggg 3300
gatcaggacc aaagttccat agtccgcgcc agccaaagag ggaattatcc gtactgaaca 3360
gatactcatt actgtatttt ccggtgtcgt ggggtgagttg ggtcaggagt gtagcctgtg 3420
gcgcgggattt tgataatgga ggtccccttg ttgaggagac ggcaagtgag agctgcatag 3480
tcggcgaaat gcgtcgcaag aaaagcgcgt tgagagtcgt tgggtggcggc agatgcaaag 3540
ttgcatgaag tagcgtcgcc ttctggccct ttgagctctg tccatagcca taattcccgg 3600
cattggtgcc gtctagtatt gagtcccaat tccaagattc aaccgggggc gcgatgggcg 3660
cttgtacttg tctatagcca ggagcaagct tgcggagggg aattagagcg cttttacttg 3720
gcgtattgtc gaatgatata ttgctgtata ggtatgaaat ggagccctcg attagcccg 3780
cggtagccgag tgtataactc gtcgcgaagt tgggtgtcga tagagaagat aggtgtatcc 3840
ggacacgttc ggggtgttgatg aagtcgagga ggtctagatg acagtcaatt ccaggagatt 3900
ttcatctttg ggagcggcta ctctcactc tgcgctgccc tgtgagcgac gagtacgagt 3960
tgtcgcaatt acgttgcgtc ccctccgcaa aggcgagttg tatatagtcc atgaaatcaa 4020
gcatcgttag gcagtcatgg gatattgagc tggataagca tatattatag taggacgtcc 4080
acgaggcaat ttccgcgaag catcacgaag ctaggaaata attgctgaaa tggaagtaga 4140
ccatgacaag aatcccagcc gcgggccagg aaccgtatca gctcattccc cctttgggcg 4200
agtcggataa gcctcgcac atcattgatc cgtcgttatc agcgaagaaa aaataattcc 4260
acttcaactc gacaatactc cgcacccttt ctatacaaca aaacacacag gctgcggatc 4320
agaggggtctt atttacaatt tggttctata ttactgttaa tttctaaaac ttacacaatg 4380
cctcgttcca agcgtgccag gatcgtccat gagtccaaga ccgcaaaaaa atcgcacaa 4440
gaacagacca gacgcctgta cgccaatatt cgcgatgcg tcgagaaata tgaccatctc 4500
ttcgtcttct ccgtcgacaa catgcgaaac acatacctga aggatgtgcg cacagagttc 4560
gctgatagtc ggtaagtgtg cangcnatcg acgc 4594

<210> 1736

<211> 3439
 <212> DNA
 <213> Aspergillus nidulans

<400> 1736

```

gggaacgaaa gaaactgtat aacaataaat ggtatggtga tatattagcc gtaatgagcc 60
aagaccgaga gggaaagaat aagacaacca accaaaaaaaa aaaaaaaatt cgacacctgt 120
gagattcgaa ctcacgctcc cgaaggaaat gcctagcttg tatcgaagat actatagcag 180
ggcatcgctg taaccactcc gccaaagtgc caattcataa taagagattg tttatatcaa 240
gtaatgatag tttagaatgg tgtgctggag taaactagcc gcaggattat gcgcagtctt 300
ttttacagat gaggaattcg tgcagttagt ccattaaaag agaaaaattt attatactcg 360
gtgtgagcct ttcaagctga caatcatggt cgtcattttc cctatcaaca attcttcagc 420
tcatagcatt ccactagttt gttcgatcat tgaggctctgt aaaagaggct tgatattcac 480
gtgatgggtg taaaagcagg cacgcatggg cccagtcctt aatacgggtc ttgcgggtga 540
ataacaaaac ttgcgggcag gtctataccc cgcaaaacga ttaagccctt cggtcgggat 600
tagttgtgca aaaaagacga cacctgtgag attcgaactc acgctcccga aggaaatgcc 660
tcgcttgat cgaagatact atagcagggc atcgcgttaa ccactccgcc aaagtgccgg 720
attcttattg gtttgagaga attttgacat tatatggcaa tcgcttctag gtccttccga 780
actagaacgc ttgtgccttg ttcaacgtca acaatgtttg tcacatgact cctatggttc 840
ctcacaccgc gcaaacagtt aagtatatcc ggatattcaa ggccttattt tacatttaat 900
tatactgtct aaacctaatc aaaatacatt cgagatcatt agggttcaag tgacgctaata 960
tgggcacaga aggctaaaga gcacacggac ttcggtagca ataaatatat atttcgtcct 1020
tgtgatctcc ctttgtggta tattaattgg acctaacaga caaccaaccg cgatcgtaga 1080
tagtattacc acaccggcac tgtgcaccaa cctgatactg gtgttggtgc cgatacacat 1140
ccgatgccgc ggaggcgata tggaagagac atcgtagcga ttgtgtatcg atagcgagcg 1200
gattcaccaa aacctgccca tctaggtgca gcaagggaaa cagaacctaa gagaagctgc 1260
acggcctttt agccgccagc acgcatcata accaatcaat aggtatggga cggcattttt 1320
acctggcggg caactagccg agcgcgccag ctaggatggc ccacctggga agctacgcac 1380
tggatctttc acgtttgcc a gtaacggaca gacgggacta gaacgataga atggcaagtt 1440

```

cttactcagc ctaggcttcc ctaccctgca tatacttgag caattggtgt aactaatgaa 1500
 ggtgggctga ccttcgcagg ggccaggccg tacctgagta acaataccaa ttatgaatcg 1560
 agccagaacg gggttcagca tcgataactt catatacatt gcatcgttac tgcacagcaa 1620
 agcagtacta aacctgtaat acagtggagg tgggttgaca gggctgagtt gatgaagtct 1680
 ctaggtgaga ggtcggggaa ataggttatt tccagagcag agccaaaata aattagcagc 1740
 attacagtct catctgacag gattcgatta tttacttgag ggctattata aaggttctaa 1800
 atagttgtgt attttgaata gaagcggccg ggattgatga cgagcctcgc aatggtagag 1860
 gcccgcaggg ctaatgtact gccaccagct cgaacacttt agggctgtta gcaactgcct 1920
 ccaatcaaac ctcacgatga agaaaactct agcacgaagc accagacgga acattcttgc 1980
 acttagagct cttctttccg ccggtaatat caaccccaga ccaagtccag tctttgcagc 2040
 tccctgaccc gcagaggata ttgacacgtg tggcactgct atccacagag ccggtaatct 2100
 tcttgaaggt gatattctca acctcgacac cgttggtagg ggtacctgtt gggctaccat 2160
 tctcatagtc ctgctcaaca atgaggccgt acttggtgat tccagagagt tcgatgtcct 2220
 ggaaggtgac atcggtgacg gagccggtag cttttagac ggtcttgatg cggacgccgt 2280
 tttgggagtc gacgacctg ctggtggaga tggtgacgt cttgacggtg ttgtcgctgc 2340
 ggccgccgac ggagccaata gacaagccat ggccgccgga acagtatccg ttggtgaagg 2400
 tgatgtgctc gccggagtta atggcaatac agtcatectg gttgtagaca gtcgcaccgt 2460
 cgatggtaat gtacgtcgag gagccgatgt caaaggcatc ggtgttgtgg cccttgctgg 2520
 tgccggcgga gttgtcgatg gtcacgtccg aaatggtcag gtggtcggac tggatactga 2580
 atccctggac aggggtgttg tagatcttca gccctgaat cttggagttg ttcagcttat 2640
 gcgcgctgaa gaacttgggc ttggtcttgc cgccgttgct gcccttgggtg tcccaccagc 2700
 gggccccgtc gcagttgatc tttgcgccag aggcttgctt aaccgtgatt ttgtcaccgg 2760
 acatggagat cagcggctct ttccattctt tntagccaaa ggttgtctcg ctttcaaaga 2820
 taacctgctc ctccgttaga aagccgagat caatgaggcg gcgaggggga aggggaacta 2880
 cgtacagtag caccgattt gagaccgtc aggtcaaggg tctcaccggc aggaacttgg 2940
 atgctcttga gggtgacagt ggagcacttg gatgcgccag acttggccgc agaggcagag 3000
 gtgaaggtgc acgagcttcg agcatcaaga tcagcagcag gggcggcagc gaccagcgca 3060

gcgcccattg ccgcagcaat aaggagagttt tgaaggaaat gcattgtaaa ggagcggatg 3120
aagagtgcta aagagcgaca gggaacttga tcaacagagt ccggaaggat gcagagataa 3180
gaaagaaagg acgatgcttg ggtggcacag aaacacgaga gactcgcagc gttcttatac 3240
ttataagtgc ggtcgatgac catttgacag ccaggagcgc aaaccagaca gagggtaccg 3300
gcaatgagtc cgatgactgg tctagggcta agattgaagc tagaaaaccc tatctcaaac 3360
accggtcccc tcttatcccc ccacttagca aagggcattc ccactgctga gcaaacgtcg 3420
ccggcaatta ttctgcatc 3439

<210> 1737
<211> 3847
<212> DNA
<213> Aspergillus nidulans

<400> 1737
tcttcttcgc gctcgtcgat gggatggatg attccagcag ttctgcctct cctaaaatca 60
taataagggg gtcggtaggt gccagcattc agcactggtc gattaaattt cttaggcacg 120
taggcaccgc ctagcaggcc agtcctttcc gcaatcgcat ctccattgtc gttccagtcg 180
accttcttcc cagtacttcg tgggtctgtt ttaacgttcc aagggtagtc gttgttcaact 240
gccggctccc tcattggtga aggggtcccg atactgctgg ccatctccga gtcacccctt 300
ccccagtaat gagctctttg tgccccaagc gctagctttc tgatctcatt gtcgcgcggt 360
cggcgtaccc cgcgcctgcc gcaacaggta gaaaatgagc agcccaagac cagcagctac 420
tggaatgccg atgccgatgc caacaccag gccggccctt aatgacgtcc tgcttttact 480
tgaagtagag gagctatcag aggtttcagc agtggcgtca aaatatgggt tttcatatga 540
cgaagtccac ctgcctgagg ttacgtcgta tagataaacc tgcgagttga gtcggggtcc 600
agtatcggat cgttttgaca actgtgatat ttggtaccct cctgcaatca tcataactcc 660
accagggagc atggttgac cgtgcccata cagcccgtat accccggatt cttcagggcc 720
tccgcttggt gatggtatac tccaggtcca ttcgccggac cctgcaaagc cccctccaat 780
ctctagaaca gcgagctggg gcgttgccgc gactctagtg ttgcccaccc atccgccaaa 840
aataattacc ttggtcccat caggtgaaag aacggcgggt tggccggatc ggggctcaat 900
tagggctgtg ttgcggaggg agagatcagc ccttgacgtg tctgcggcgt atcccacgct 960

tacaaagctc cagctattct gtggcgcaga gaagatagcc aactcggaca tgttaatgaa 1020
tgcttgctga gtatgcccg caatgagaag gaagtcctgt tgttaccgga gtacaccgtc 1080
cgtatagcca tatgtggcct ggaggggagt gaacgtgaac cccgcttctg ggatcggagg 1140
cgccctgtcc ccagtaatcg acgctggta gcacttcccg ttctcgcatg gagccagtac 1200
tgtcatcggt tgggagtagt tcgcggcaga gaccaagaa gtgctgtcat cgctttcgta 1260
cgggcacatt cccgcaaacg cgaagaccga gctttgggta gtgtttgaag cagagtatgc 1320
gaagcctgct gacagatggc ccggtcgatt ggtaatatca acttgtcctg gtccctcaat 1380
cgagaactcc tcccatttcc cgctgcctga tgaactgcc aatccggac gaaaagacca 1440
tagttttggt gcgttccccg agtcccaaca gtcacccgag tagatcttca gcaccccatc 1500
ctggtcaata acaggtacgt atgcggaactg gccgacgttc ttgttgaatg ggacgtcgtc 1560
gagcagtata gtatacgcg acttgtttgt gtccactttc cgagaaacgt ctagcgagat 1620
aaattccgtt cggccttcgg ttgcccgcag cagataggca aatgaagtat tatgctgcga 1680
atcgtataaa agactggatg gtgtatacgg gatttgtgca gacccatggc cgacaagggt 1740
cagcacgcaa aggagggaca gcaccgagct ggcgccgact gccctgcgca ttcgggatct 1800
tcgatagaag cgaccatcca tggagagatg cagcagattt caggcaacgt aggcagaggt 1860
gcaatgagca gcccgaacttt gagacattgg aggctgtcga tcgctcgatc gcaggatcta 1920
gagaaagtac aaccgggaag cggggctgcg accatcaaca agtgctcaac acaagctacc 1980
ggttaacacc ttcaagagtt cgtacaatgg caatcctgag tgatgtagcg aacccgatgc 2040
tggtcaagga tctggccagc gtggttttga aggtaatgag caagggcgat ggtgaagcca 2100
gtcatgtaaa caaagtgagt ctggagtacg tatgcatctc aatcgtcacg ggccacaata 2160
agatctagat cattcgcaac gcacaactgg agcctaaatt gattgaaagt ccatacatag 2220
cacagaagac tagtgccgag atcaaacatt cccacgatg tgcagggtgg atttgctgtg 2280
agtcgatgtc atgcgtgagg ggctgggtcca ttgtggccac aaaacaccgc cgccggctcg 2340
ttgccagtgc aacgagcagc tcatcctctg actcgaagca gcgtccaaga acactccgcc 2400
gagcgaggcg acctgaatgc tagacaatgg atcatcagaa ttcacgagcg agttcgtttt 2460
ccttctgagg aagtccagat gatgatgcac agagtagaac agagctggag cccgcagtcg 2520
gtgaaacatt ccatggccgt tgagagtgga gccagctaac catctgacac taacactaac 2580

actacactga cagtttgaca gcttgacact attactattg aaccaccttg gaccttatgt 2640
 caatcccagc agctttatac aaatcccagt tgttccatca tcgattatgc ggtgggctcgg 2700
 ctgtttacgt attttcccgc aatcttcacg tctatttggt cttacgtcca cgtattggac 2760
 .cccgttgcc gtgctgatgt cgtgtctctc tccatcaata ctctcagaac aggagatac 2820
 cttcgagtat ttcatgctcc agggagattc aaagattcag gttcccgcag agacactcag 2880
 ctgcccgtt agagatcacc ttattgactt gggatctcag taatccagcc gattatacct 2940
 cgcattgcct ctgcctccgc ctctcgcagc tgaacgctct cttgtcttta cgaccaatat 3000
 cattcctaga aacggccggg tttattgtta gggtaaaga cttggagccg aagattggtg 3060
 tctgatggct cgtaagcaca ttcttctact aatcccaaag caatcggccg aagcagcgtt 3120
 accatthttgg tcaatcggac tccggaacgg ccgcggcatc tacagggctc cgagggggct 3180
 gtgaaagtaa actataccga ggagatatca gtcacatg gaatcgccat agatagcggg 3240
 gaatctagag cgccccgtcg cagaggcgtt tccccgtctc ttcttcagca gatataaccc 3300
 ctctctctc aggcaggagc ccctgccaca gagcaacggt ctccggagcct acgggttgcg 3360
 ctccggggcac gagcaggggc acgagcacca gccagagacg gcgagaagac tagacacgat 3420
 tacactgacg gtggacaatc ccagcctaga gaccactgcg tcgctgggtcc acatgccgta 3480
 gctaacaata cgcgggtttcg agttgaacgt gaccagtgt atgacttgct caccagattc 3540
 cggagttccc ttttcatcag acttgaagac acgggacagg gcgggataga acaggtcagc 3600
 cataagttgt gccgcacctc cggctctcgtc gctgtcaacc tcgagaggga ttcgtccgta 3660
 gactgtgtc atcatcggtg gcaaaccatgc taatctctgc tgctttttct ttcttagcag 3720
 gacggctaac aggtccgatg gtagcgacac aaattcaggt catagagcgt tatcaaaaaa 3780
 atgcaggtaa gccaacgtct tcgcatgtca ttgagagcgt gcggtgtagt ctcaaccaag 3840
 gattaga 3847

<210> 1738
 <211> 3563
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1738

cctgcaacca tgacgcaggt ctgccgttcg cataggatac taccgcatat cgaagcatat 60

tagtcgtgtg cacggtagtc agcagaactc ccacaacttc accactgtgc tgtcgtggga 120
acaataacag tctacacgac acggcaatgt gactcgatcg agacccggca acaggcctta 180
cgtgttacag gaacctttgc agtcatggca aacaggtttt ttgtgcacgg aatgaaaagc 240
tattggcgtg gtagcacaat ggcgcttggga agactgggta tgggaaaggg gttgggttta 300
cagttacgag aacactgaac tgttcttata aagtctccta ttaccagaaa actcaaaaata 360
tttgaatgct acctataagg cgagaatagt tatgtcttat aaactgataa agaagaaaaa 420
gcgtagtgat tgtttgtgtc aatgtagagc tctccaagtc gaggtctacc aaactataaa 480
aacctaaggc ctgtgagggga cgcgatgaga gaagtatcga atatgctctc cctgtggaaa 540
atggggttat tggccagaaa ggcacgttct ggtgtctagt gtcactattg tgggcgacat 600
gtgggtatgg tcagtattcc agagacggcg agccgctctt tcaaaagcat ggctctgcca 660
tggtataatt ttggctcgta cggtaacgt gatgctgagg aacacgactc gtggctggca 720
gaccagaata tccttgggaa ctacgatatg ggaccatcta agaagatctg aactaacaaa 780
actagaaagc tccacagccc taggtgaatt gaggtccatt tatacgtctt gggcaaaggc 840
agcatctgtg accatcccat ttccgtagaa tttatggaaa tactgcttca ttcattgtta 900
gatcacttgg ttattgatgc catctggctt cttgggatga ggataaacca caagctggca 960
aatgaaagaa atataatatg aatatgcaac aaaacctctt cagcaggccg ggctcgagga 1020
cgagtaaacy cgataatcaa tagcctaggt attactataa ttgagacata cgggctcagt 1080
tcaattccaa gtccactcac acccccatta tcagcacatt agattaaacc cgtattttat 1140
taatcctctt cagccgccgt agcccacccc aggtgatgag gccaacgccc atcagactgc 1200
ccacaacaat cgcgccgaag gccgtactgc tttcctcgct cccattaaca acattcatac 1260
cataccatcc tgccaccagc gtcccgctg caagcgcaag catcaagatc tcaatccgcy 1320
cctcgagaac catgatctgg ttacgccgca cgcttaacgc agcgcgatc gtctcttccg 1380
tgcggtgat attgccatc atacgtgtgg cctcctgcac aatggtgtcg gaggccttaa 1440
agtacgttc aaaaaggtag tcgacgtcct ggtggtcgga cggaagatgt ggctttccct 1500
gagctttatc ggtgaggtac atattcgcca tatcttcac ctcggcgagg acctcggaag 1560
tcagtgtgcg aacctgccga gcggcttgat caatacttgc aagatgacga gaaaggcgaa 1620
gaagggcgtg gataagcgac tcgtattcct tttccttgc tgatatgaag ggcgcgtcct 1680

ggtgtgtctt ccggaggagt tgggaacttc gtctgcggtt aggctgtact ccgcttcgag 1740
 gacagacgtc gctgaggcaa gcgctgcttc gagaacccgt agttcgtaag gctgggttgt 1800
 actgttggcg ctacctagaa gctttcgctc gaggttgtga ctgaaaacct gtgagacact 1860
 gctaccaatg ccaaaatcac tttcatcgtc gtcgccatta ctgttggaac tcgcactccc 1920
 agcctcaaca gatttactag ccagatggaa aagcaagaca tggtcacact caatcagcag 1980
 ccgcagatca aacaagtga ccaaaatcgc atgttcccg accaggacat gcggaaatcc 2040
 agcgggaagg agatcaaaca cccgtagatc gcgagtggtc aggccatatt tctgggcgat 2100
 ttctaacttc gtttggtctt ggacctcgga aggggcctgc ttgtcacgca tatcagggtc 2160
 ggcactttcg tcgtaccgag agtaccgcat ggaagcgttg ccgttcata ggcgtggga 2220
 gtattggagg gacagttcat ggactcgctg aaaccgggtc atcgcagttc gatctgcaat 2280
 atggcttgca ttgcatcgaa ctgctgtact aaagtacatt tggctttgca gaggacccca 2340
 ggaacgacct gcgactctcg gccaccggag gacgtacctg atgtttgtgt acacacggcc 2400
 gtgatgcatt ggacagcgcg ttaatgggtc gatagacact catttgatg cactgacgag 2460
 ttaagggatg gcttgaaact tgcataagc gagtgtggtt tcagtgtgca gaattcgtcc 2520
 ggttggtgtg cgagtcccc agttcagcaa aaacacacaa ccaacctccg atcagggggcc 2580
 ggtcgcgctc ttagaatttc ctggtagtat ctgataatag atgcttgtct tggtaaacad 2640
 aaacagggtt tcggggcttg aactggaatt ggctgtcgat tcaaaattgt ggctgcgagc 2700
 cattacgtca cagcgctga ccaaggcata actgtggcag acagtgcac cactttctaa 2760
 gtctacacca tagggcagaa aggatggtat tgattcttgc ttcatttgcc tagattatat 2820
 cctagacaaa ctttttggtg gatagacagg ccatcagaaa gaacgagcaa agggtaaacc 2880
 attggcctat tcttctccct ggaataaaga tgattttcct atgtcattaa cttgaacttc 2940
 accaggatcc tcacagcaac tagcccgctt ggtgactatc ttagggctcc cttacatcct 3000
 tgtgaaatgt ggatgtgcgg gtcaagtatt gcgatgactc gtcattggac tgaaatggac 3060
 taccggtctt atatgagctc gtcattgccc aggagcattc actggccggt tgttagcgtg 3120
 atgcttattt tggctgattt gcgaattgac tttcgatcca aaggctctta cgtgcgatga 3180
 accgcctcca aagtgagaac aatacgtagt caccagatga gttgaggaca ttgtgaacta 3240
 agccagccaa acccagacaa ggcgtaagat agctgctgct ttcgatatat acactaagaa 3300

agctgggttat acctgggact gggaccagag catccctgct tctagcccac tgacagccca 3360
 acatctgact gcggtaatac ggcatttatg accagggccc caaccaagga tattccccta 3420
 ccgacgaccc aacctttggc tcttgtcaaa caacgggcct ggcactcagg gagccatact 3480
 agaggccctt ggaataactg acgctaccag aaacgggtgca ggagtcagtg cacctgtatg 3540
 gcgggcatca agagccccaa ggt 3563

<210> 1739
 <211> 2456
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1739

taaattagta ataattgacg aaaaaaaaaac acaatacgcc cctaataaat gagccacccg 60
 caaaaatggt cggattcttc ttttaaggccg ttaaaccaac aaaaatggga ggcttttggga 120
 aacccataat agaagagggg gtagcctttt taaaactcac gcgggggggtt ttatgcaatc 180
 cattatcaac ttaaagctga aggtggtatg cattttccct caaaaggagg gactatgctt 240
 ctttggtga cgctttaaaa gcctgtcgag ctgacatctc aaaagccccg aactgcttgg 300
 tgggtcaatt tcaccatgtc aaatgacccg tcaatatggt tcagatgcaa gctaccgggc 360
 tattttgtaga tgcaactcgcg cctgtcgcat ttgtgcgcag gagtagtcac cgagccagcc 420
 acccctaacc aatggtctga taatcgagca agagtccttg acatagggtg cccaggctga 480
 tcttgctcaa aggcaaaccg tcagtggggc tttggctgct ctaaagttga ggtctccggg 540
 aacaagtgtc caaagagtgt ctatgggcag catgcagttc gacaataatc ggcatcctag 600
 agctctccga attcacggac ctttgtagag tcatatatga tccggtcact tctaagagag 660
 tcaccctgaa atacccccgc tactgggcgg tcaagcatca tggaagggtg agattacaga 720
 acttctattc cacggccata gacaatgaaa ttgaaactaa tacaatcaca gggtcgcctc 780
 cagttttacc gcacaaacaa aatccgcact tccctcaacc cctcaaccac atcctccgca 840
 aaacgcaaaa gagaagacgg gacagccatg ccagccccta gttctggcct ccgcgtcacg 900
 ttcaagcagt caagaccgaa cccagcaat caccaccca gcaccccctc cgccaaaacc 960
 ccagggccaa gttcaggtct tggaactccc ttgcaacaaa gacagcccac gaagctacat 1020
 attccgaact tcgctgcagc gcaggttcac cgtcagccgc cgtcacacac ccccgcgact 1080

ccgtctacgc ctggtggcgg gctcaagctg aaattgaaac ttgggtccca gcctaagcaa 1140
 taacatttaa aacctttccc tccctgccat cgtatttcca tgatgagtat tcttgtaatg 1200
 tatcttcttc aggtcggtat tccctgctct ctgtatccat ttattttttg ggaggggtgtg 1260
 ggctgggtat gaggcgtggt tgtttggatg atctttttaga aagatagcta tctatatcta 1320
 tgaaattctg agaattccac cgtgactaaa gttgaaagat ctccctagctc aacaagagta 1380
 gaaatttgcg acgtccgaca ggggttcggct ggttcttacc ttcattggctt tacagagtag 1440
 ctaattgttc ctggtgttac gaaagtatcg agattaatgc aaatatatat ttagcatgcc 1500
 aatttccacc acaacatgca gatctagatc tacaaattaa gtggaagaag cgaacagatc 1560
 gaaagactta tcttagctaa tatccctctc gtaaacgaac ataataaaag taaatatgaa 1620
 acagacgtaa tgcccttgct tgggttcgatg gattccatgc gagcagtcca aaatcgtgaa 1680
 ctcccttttc tottaatgaa gcaaccaca tacatcgag gatattggtat ggtataaaat 1740
 gcaagtcgtc gatgtcctaa cgtctcccc ctccactgtt gtcttatttt gggctctattt 1800
 ctcgcttata cgttccagag cctgtagagt ggagaagagt cagttgttta gtcgggcgaa 1860
 tgtgcaagac ataaagagag agagagagag agagtgagat aaaataggac taacctcgag 1920
 catgacgaca gaattgccgc ggatgaccta gaaaatgtac gtgatacaga ttagttcaaa 1980
 ttcgtataga gttcaactcc agtccaaggt caggaagcgc atccaacata caatcatgcc 2040
 gatagctacc ttctctccgc ctggcttctc ttcgaatgcc tcatctaaga cgatgttcat 2100
 gaaaacctat gatcgatgtg ctccgttagc ttttattccc gtcctcgcgt atcgatagct 2160
 tctaggagta gccaggacc tgagtcgcga aattcttgaa gctgagataa aatacacaga 2220
 gtccggtccg acgtacatcg tagcctcgta gaacgccaat gactttgcgg ttgccgttga 2280
 gtccgcagaa taccgccttc tccatatact gtgaaggagt agtgtcagtg ttaccattcc 2340
 aaacgccaag gtaatactcc ttaagagata ccgaccttct tcaactcagg ctgtgcttga 2400
 ggcattttgg cgattgaatt ctgattgatt tgctgcctta tgggtgaaggg ctaatg 2456

<210> 1740
 <211> 1710
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1740

ctggaccctc cacacactcg cgcgaccgt ttacaaggcc ctccccagtc ccgttcaggg 60
 caacgaacca ctgccatttg ttctctgtgt taggatttac tcttgttctg ctggatttcc 120
 tgctctgctt tgctcctcgc tgctttccct cattctgagt cttccacttt cacagcgtat 180
 gggatgagct tttgagttga cgagcaacga gtctctgata cgcgaggcca gtcatactg 240
 gcgttgctcc gaatgacctc gccatttcgt ctctgacaaa gtacaaggac gagcctgggtg 300
 ataatccggt aaggttttgc tttctttttg ctctctctgt ttgacttggg gcgctgcttt 360
 cgccccatt cttcggtctc atccaaggac atcctggctc gtttcacgtg gtcgagaccg 420
 ggaacgacct gtcaacaaag acttgctacg agtcaacagc ggcgatctcc ccctggtttt 480
 gacagtgcac agcactcttg ttgtaaacgg ctgccgctat cttagcttt gatacacgcg 540
 actcgaccct ggccgtcttg gtgtatcggg ctccatctga attgaggctc caaggaccgg 600
 ttctccactc cctggggctc taggagacc tctgaccgg cctgatactc gccgtttccc 660
 ggggagaaca gtcttggtgc agtctctggc cgacgtggac accggccctg cgcttcgcga 720
 ttgaatgttt cgcgagactg ggcattgtga acctcaagaa ccgcaaaggc atgtcttggg 780
 cccattatgg ttacagtggg atgttggtc actctggtca cacctggtgt gactgatgtc 840
 cctacaagcc gtctggcttt tggagaatgc ctggacgcga gggattccgg tatctggaca 900
 tgccagggcc gcaccgagtt gcatctaccg tctaggctgg agcggccgta cgacctagag 960
 gattcttcga cgttcacgc gccgccagat cagccagctg cctacgacct aggtccgcat 1020
 tttgacagcc gctatcatgt ggcggctggg ggctatgcag cctccctgct ttgcagctcg 1080
 agcgtagat gcacatatta aagcattact gaccagtccc attgcagttg cgacaacagc 1140
 acgctatctc tgggcatcaa ggctcccaga atcccggtc agcaagcctt gttcacatct 1200
 caaagcaacc cgcgtcgcct cgccaaacta gcacgaatct ctctactgga tcatatgggtc 1260
 ctccgactct aggtattgga gtcttgcatc atccacctcc atacggccca caggctccag 1320
 agcaaacta ttatacatcg catcaatctt acaccacggc gagtgcaccg agccaatacc 1380
 cgtctagcgg taagtgcatt tgtcttattt gtcttacgga gaaaatgaaa gccagatag 1440
 catattggcc agttcacggc cgattccgaa acttcccagt ccacatcagt gctcagtcac 1500
 tctacgcttt agcctctaata tctgttctag gtctcaaga aataatggct actacacaaa 1560
 tgcacgacc ttatcccccc atctaccata ccccccaatc atcctcccct gcttcagtg 1620

ctcccagccg cacgaacata acagaagcct ctatacacia tctcctcaaa tgacgtcgac 1680
 gatctatggc tatcaacaag ctttatcagc 1710

<210> 1741
 <211> 3192
 <212> DNA
 <213> Aspergillus nidulans

<400> 1741

gaatcattta cctatcagtg atctaacttc tcccggcatc ttgacagcct ttagtctgct 60
 gtggctgaaa cacagtttca acttctttgt tagccatata atgaaactac aggcgaaggt 120
 tagtcttggg tgtcatacat ctctttccta taatagccta agatctattc atggaatagg 180
 tattatctct cattagtttt gatggagcca tctgggcctt agcgtggcaa agttctttca 240
 tcatagccgc atgcatagtg ggcagccatg atcgctctga tgaacagact acgcaggcat 300
 gttgaatcag cacatatgtg aattggatgc gtataaaagc attgacattc ccacactttc 360
 ctgtcatttc ctgcatcaaa tttaacagac agctcctttc tcaaagcatt tattttcaat 420
 tttggaagct ggtcttttcc gtttaaaaat cactcttcaa gtctttatta ttcttgcaat 480
 gaagcttttc ttcgtctcga ttcttcttgc cgcgttgctg gcaaccgctg ttaaggctgc 540
 acctgccgct gaattacaac atcgatggtg cagattcgcc ggtagaatct gcccccgac 600
 caagcgtact gccgacgccc tcaactttgt caagcgtgag gccgaagcgg tggccgagcc 660
 cttcaaaatc aatagatggt gcaggttccg tggccagggt tgtggcaagg ccaaactgac 720
 cgcggaagcc attggaaatg tcaagctctc tgctgaggcc gttgcagacg ctatggcttt 780
 tttggatgag cttaccggg aagagtacgc ccagctcgcg aaagatttcg gccatctcaa 840
 ggagtctgac aattccgacg ggtaaacatc attcgtatgg ttcaactaca gactactgct 900
 atgtatcaaa ctcaaaaag acttgtagta cttcctctga agccgcctcg acattaacct 960
 tgagttttaa cgaaatgacg ggcaaagggt gtacgaattc tcttgattac gctcctttac 1020
 gcctatcagt tagcactcac agtttctgtg ccagttttgc actcagatca tcggtttatt 1080
 gctaacctag tctacttctg ccggggttct tcagacgagc accgggttca ggcattggaa 1140
 gtgcgcggca ggagaagagg aaacgaaggt cgtgatgggc tcacatgacc aagtaaccgc 1200
 ccggaggtct taaggctaata tctctatat tttaccaag gacatgtcga gggtagtct 1260

tgtttggcag ttacattact ctagtgctca gtgcaaccat acctatgtat atatacgtgt 1320
 atccctatag tcaaacaaaa gatttgtacg agcgggtctgt cattcatcac tgatagtaac 1380
 gaaatgtcct tggctgtcct gcgtatatca tgaagatgtc ctgggacatt tcctccaca 1440
 taaaaccgta gaagccaatt aagccgcaaa tataccaaag ctccttagtc acacagttac 1500
 attgtgcctg gaatgctagt tttccatcgt cgtagcttgt gttegttccc accagcgtg 1560
 gcctcctgct tgatagacag ggctcgtgaa aagcctgtat ggagaacaaa gggtagagtc 1620
 atttgatggg tgattagcct gaccggcctc cctctggtga gcgaccagac catacccagc 1680
 aagcatatat gggtcggcag aatgggtctgt aatatcgcca ttatttggtg cttgagccga 1740
 atcgcccatt tctaaatcca tggtaagaac cgctggctc tggccaatt tcccaggctc 1800
 tgggcatatc tgccacatct gaatcaagcg attctgctga tctggcatgg cgttcgcaaa 1860
 tagctctaatt tgactcgttg acagtgtgga tggattgata cggtaggtgca tgagcatctc 1920
 gagtactcca ttgcagttt cactggtcac cggtaggagca acattctgcg ggacagctaa 1980
 ccccggcata gcggctctct gtgctacatg cgctgaatga tgataatgct gtgtgatact 2040
 atatgtgatt ggagaagggtg tcgcaggcac ttccggctct tcagagaccc gggattgacc 2100
 gatgctcatg tgtgtgttaa acagcgacac aagatcatcc tgtgctctta atttaccctc 2160
 ggacgctgat aaaccgcact gcgaaggaca cctagtcagg gataaggtaa ctaacatttc 2220
 cggggtatct acctgggtgc agtgagggtc tcccacaaag tcagtcagta tctcagagat 2280
 atcggtaaca tgtccacagg agggacaact atgcaatc gacggagaca tagtgatgga 2340
 atcccgtagg caaacgcaga acaggggagt ggaagatgcg tgacagagtt cgatcagact 2400
 ttgcggacta gatctaagct ccagtggcct gaagacagtg gatgacagat gtcagaggga 2460
 acagatggtg aattgagggg ccgtcgcaac aatatgcggg gtcgacagtc aacagtaaat 2520
 acctaggaaa attgagaacg tgaaaattat ccagaagagc agtactgagc actaaactgt 2580
 cgaggctttt accatcagta gtctgagaag ctgcaatttc aagggcggac aagaaagtgt 2640
 caagagagga aagtgggatg ggagcagatg cccaagggtt gggcatggag agttctagtc 2700
 tgcgagattc ttagaggtga acaggaacta gcctcgagac tgactcggcg gcctcatcta 2760
 gctgcctcgt tctacttgcc ctgcataata gcgcaaaacc gtcattctcg tactagatga 2820
 gcagcaggac agtgattgat gaagccgaaa tagaaatgac cagggtaaag tcatgtgac 2880

tgaccatggc agtgacaaca acggctgagt actaggcggc aagctaggta gctccaagac 2940
 ctacgtacca tcatcggagc agtaacatca acctttttga cttcctctga aaccactgac 3000
 actattatct ccttataccc ttaacccggt actcaacctg ccaccgttac tcccctatct 3060
 gtacttcagt caattcggcc atgggtatgtt tcgctgctcc agtttagctga tacgccagct 3120
 aatactcagc attacagacg tccatcggca cgggctacga tctatccaac tcagtgttct 3180
 ctccagatgg tc 3192

<210> 1742
 <211> 3381
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1742

ctccaggctg ggcatacgtt tcattgtcgt ctggcaggctc atgcgtccag ggcacgtacc 60
 cgactagctc tcgtccccgg atcggatccc agtatgtgac gttctcattg ttgacgtaga 120
 accggtcgat gaagtgggtg aaggtagtgt tccatagata ttgctggaca agggacttga 180
 tagtttctgc tttggcggtg tactcgtcgc cgagatcctc gttgccccgac gaggctgcga 240
 gatttgagat cgcttttcgc ttggcgaaact ggtaggcggt gatgctcggc ctgaacgcct 300
 cgcccccaaa aaacccatca taccacccgc tcgctcgat gctagagatc gtgtactctg 360
 tcgcatcatc caagggtcgg atccagtaga gccctttgct ctcctcgtag ccgccaacgc 420
 caccggttgc attttcgtcg ctccaccct cgtagacact gaccatagcc tctaaacgtt 480
 gtacggcatc gtcaatcact ccgtccacca ggtagccgc ccagacgcca tcggccaaga 540
 cctctgagaa ctgatagggg tatgtattcg gtccaaagag agtatcagcg taatcctcct 600
 tgaaccgacg gtctcgacac cagcgtcctt cccggagatg gaagttggct gcatcaatca 660
 aaatccccca tggggaagtc tgccacgaga cgtcattgat gaactcgggt gatataacc 720
 caagggatcc tagatcgcgc tgggtgtgcac ggaagatgga ccagcggtaa tagtagactt 780
 cctcaattga cgagaccgag gtttcgaata gcgggattcg ggaagtgtac caaggggcat 840
 cagcaccgag gtattgactt gtgagggacg ttgcattgag ggcgtgggat acaccacga 900
 gggggaccag tgacaatagc tttctggatt tcatgggtct cgctgacatg gcttttgggg 960
 tagggctcgg tggggaaaag ggcatttatg aagccaactg cggagggaga tcgaccccc 1020

gcattctgac ctctgaattt aaccgacagg acctgacggg gagccggttg attgccgatac 1080
tcctgatcgt ctcttggtat gtgatattcc tcaggattct gcaacggcgt cctaacccca 1140
cccggagttt cttcactttc atcggcggag ggccgaaagg ttgctgcagg aaaatgatag 1200
atztatccga tagcccatg gtagcccccag acttttttcag agagatgcga tcaagttata 1260
ctcccgtttt cgaaagtctg ctgcttggtc ggccaaccga gcatgacgga gcggttaggg 1320
ttctgaacaa ccagcaaaag aaaagaaaaa tcttccgctg tgtgcggcca ggttcaagca 1380
ttctcaggta ccagatcctg gcctagtagc ccatacctctg ctttgaccag attctgacta 1440
tcatggcatg cagctgctgt acttgagtac ggtacgcaag ggctgcctg aggattcccg 1500
gctgtgtcgg ccatgttata gacgtcttct taataccggg cggcgaggcc ctggatctct 1560
aattatgcag atgcttgagc gtgaaaaaga cttcgagttg tgcactggaa aacattcggc 1620
gtgtcccagc aaactgagcg cttcattata gatcccatca atcttcttgg actggggctg 1680
cataacgagc accgactgac ggcaaccaa gtcaaataaa cataagaaga atctgattgt 1740
cttcacactt ttgccaggaa tcaagtcggg gccggctctg tttatctacc tgacgaaggt 1800
tcccaccca aggggcatcc acgccataga ggccaaggtc gtggggtggc accgctaaag 1860
agggtagcta agaggcagtc tctactcta atgaagtctt gctttatcaa ggataaatta 1920
gaagagaatg ccacggtagc ctggcgcaac tacctctggg tgttggtgta tttgcgccga 1980
gttcgtatac gcgcattcct gtgtgggatt cgtgggcata tttggcgccc aatggctgcc 2040
ggactcgtac tctgaaggtc gctcagatag acatgaaaga actaactctg gctatgctcc 2100
aatggtctcg atgcgacatg gcgtgcgaag gaacgagctg cctcgagaga tgggggcgct 2160
tgtgtctacc gacaactact ggtaagtgcg gccatccaaa ggctttagac cgccaggcc 2220
agctatttcg tccatgtctg ggcgtaattc cttacataga tcagctcttg gtattgatca 2280
ggctgggctt cctcgaagat cggatgatgt ggtctttttc ggtcacttgc attaaaggat 2340
cgagatggtg tcaatgaatg tgcaggatac gatacgagcg tgaacttgcg atcgtcaaata 2400
gcagcgcaat gacttcccag ctgttacctc atgagctgaa gttacgagaa aattatgcac 2460
tgtgaattct cagcagcagg ctcgatatta gcgctcagca ccgcccttca agccacaagg 2520
tttgctaaa gcccgttgtc tcgtatacta gctgcaggtg ttctgtgcc agccatccat 2580
ctgtaggtag ctggcgccac caacagctct tatttgaga aattgggctg gggatgcatg 2640

ttgagtaccc aactgcatgc agactctagt cttggccaca ccgacgtgaa gacgctgcag 2700
 gtgatgtttg ccatacccct ctcttttggg ggctggctgg cgttcacagc ttgaatgagg 2760
 ttcgtttgct cctgacttac aggagctagt tcgtcttagc tacgtaccgc tgcaacggac 2820
 gctgatcatt tgatgttgtc ttgtataatt acagaacatt attggctgcc catacatccc 2880
 cagcacaacc gccagccatg ccgtgtcact gtgactgcta cacacttact ctctgtcatg 2940
 gcaacagttg ccacaggtea ttaggtataa ctattatgaa tacattgccc tctattttct 3000
 gtgacgtgtt tgctctcata cctgagtacc aattaccgc aacgtcgtac catgtctcca 3060
 gctctgcttg atatcgaagt tcagggtagg gttcctccat gcctcttccc cagatcgtct 3120
 ctctcgccaa atgataagac aagcgaactg ggtactcaag aactggtcct cacggaaaag 3180
 ttggatttcg tccaccagtt cctgcaggaa agccagatca cccttccaac cgccctgcaa 3240
 acagcatggg ctctgacgct tcgctgtttc gtgtcttgcg atatcctctc gttcggctat 3300
 catgccagca atcttgacgg ccatgaagaa ctggctctcg tcggccgagt cgacaacacc 3360
 gagaccattg cggtctgttt g 3381

<210> 1743
 <211> 4391
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1743

atgatggatg gaaagcccct caaggagtgg agtggccccg tgtctctagc cgcaactatc 60
 tcaattctaa cgaccgccta ttcatacagca ttgatgcata gcgtcagttc ctttatcaga 120
 cagctgaagt ggcttcattt caaggataag ccacggagac tttctcacct cgagacattc 180
 gacgaggcga gtcgcggggt ctggggggcc ctcttgctcc tcacgaatgt caaatggaat 240
 ctagccactc tcggagccat catcacaatc ttgcgactga cgttctcggc gttctcacag 300
 caagctgtgc aaattgcgca gagggcatcg acgacacctt ccgatatcaa tagtgctgcc 360
 tttggatacg cgcacaatta ttctcgggat tttagcaatt ttagcacata tggaaacact 420
 gacaaaagta agggcatctc tacattccaa aacatttcag cttttaggac tttcggctaa 480
 gcaacttaca gaagcgatcc cacaggatcc cgatatgcaa ttcgctataa tcaaaggtct 540
 ttacggaatt gatacgctg ctacattctc ctgcccgaagc tcatgccgct gggatggctc 600

atatgtctca ctcggtttta agagcgctg taagaatgtc aaacaagata cactacgttc 660
 ggccgcctgc gatgggacag agcacaggaa ccgatgcaac atgaccacgc cgaacggcgt 720
 gaacataata acgcatagga tccacaccga cgcggcgaca agctatgtca tgaataccac 780
 gtcgacactg gagccatctg ctgaggagaa attgctggaa atagcgcggt tcggcatcta 840
 tcggtcctcg ccagacggca attttaggca gcaaaatgtc agcattacac agtgctcgtt 900
 atatctcaca gcttacgaat atgcaaatgc gtttgccaaa ttgccaacgg aagtctcttc 960
 tatttcatag aaacgcgcga agttggctat ccaattgggtg accgcaagat ggttttccga 1020
 acaaacgaga cgaagaccga ggacaatcat acgattccgg cgctgcaa at aggcgagtgg 1080
 gatctacaag ctctgcataa ttttttccaa tccgcgacaa tatccacaga gtggattgaa 1140
 gggaactggc aaaaccctaa ccccggtcat tcgggtgcct tgaagggaga cgtggatatt 1200
 ccggcacggt tcgaccacat ggccgctagt atgacggagt atttacgaaa cggcccta at 1260
 aagttgttag cagatggtgt aaaagtggat tcaaatacca gcctcggcgc ggctgtgatc 1320
 ggccattaaa gccatggaaa acatatgcag aatgtccttt tgctaggtaa attacatgtg 1380
 ttgccgtctg aggcagttca gggcgtagtc cgcaagaccg agtcagcgct atgcaaggcc 1440
 ccttgggagt aaatcaagaa catgacacat gaacatggct tttctggctg cccaggtatg 1500
 ggatccagga acccgttgcg aggcgccacc gtgatcgcc atgcgcccag gcaatctagc 1560
 ggccccagac cgctaggagg acaccataca accctagtaa gagttcaatt gacatatact 1620
 tgtatttagc aatagctcaa aagatatctc aattccataa ggctacttca ttgttctgaa 1680
 accgcaa at aattcatctt acaggtccta cgactgggta cctatcgaaa accagatcag 1740
 tatcctgtaa catagattcg cctccttcca tccaacccat atatcaggag taaacttcaa 1800
 gcttacattg cgagtaaaag tggttgaaga acgtgcatgt ccatccagag ggacacgcag 1860
 tcggtcctgt gtattcgctg ccgccgcatt ggccgtaggg cgaggcggtg gcagtagctg 1920
 tggctgtagt gctagtgggt gtcgttgctc ctgtggtagt tggagtagaa gtcgtcgtca 1980
 atgtcgtaga tgtactcgac gttgttgacg ttgttgacgt tgaagacgaa cttggagggtg 2040
 aacttcatt cggtcctcca tagaatatac cccttcatt tgtccctaca aacacccgtc 2100
 catagttccc catgtcccca ttcaccacat tcgctgacgc agcaccgaag ccatgctccg 2160
 aatcggaat catagcccaa gtggttcctt catcctccgt cttagagagc gcagttacgc 2220

cgtctacagt gaagaagcca tatattactg gatatgcgga tgttgaagag ggctttccga 2280
 gccc aaagcc ccagccagct gtacaggagc ttccagtctt ggtaaagggtg cggccatagt 2340
 ctgttgagtg atacagtccg gtatcggtgg aggcccagac atcacccgca agcgatggat 2400
 gagcgcggat ggcgttgacc gtggagctag accccagcgt ggcggtctta gtgaaggagg 2460
 ttcccgtgtt tgtggagacg tagaaactac ccgaactgcc gccgtagaag acggatttgt 2520
 tggccttgtc cgacgcgatg accgcacccg aggggagact tgtcacagcg gcaaagggtg 2580
 actgatactg tgagcggaga gcgccttggg tgttcgacat caggaggatg gtgtcgccgt 2640
 ctgcggagat ggccacagga cctggctctg tggccgaaga agcggcgtag ttggcggacc 2700
 acgtgcggcc aaagtcattc gagagggcga cgggtgggatc gtcggcgta gttgagccgg 2760
 agcgaacgat ggtcgctgga ttattgcctg cgtaatcgag gccgttggtc gagccatagg 2820
 ttggtgtgtg gtatgcctgg gttggcgggg tgtcgagatc tgagtgatag aaaccgccga 2880
 cgtcatagac agctgagagg agtggagggc cgcccggggg cacgatcaag gcctggacgg 2940
 ctgtttcttc gattccagaa gccaggctct ggagggtaac gcggtggatg gagtcccagc 3000
 ttgtgaggtc gtggccgccg tagatcgtgg cgccggtacc atagagccag tgattcgagt 3060
 caaacgggtc aattgatagt gcttcgacca tccagcctac gcggacggga aaccgtctg 3120
 tggagggtgt gtcttcgagc catggcgctt ttgacacctc gtagtcgtag tagtagttga 3180
 tgttgggata gccattccat gcccatattg gggaccagtt cgcgccggag tcaacactac 3240
 gccagatgag ctgcgcgggc caccagcagt tcagggccgc aaccattaac gttccaggaa 3300
 ccttagatga cagagagacc acagtagcca tagtatgtat cttccatgga cgtagggctg 3360
 atgtcgggtc acgttccgca cgagatgtcg tacttgtgaa cgggtcccgtt cgttccgtcg 3420
 taaggaccag caccattcga gtaggagatg tatagtgtct tctccactgg agaaaggacg 3480
 cctatgtgag ggaggaatcc gtactgtggc tcgccagtga ccagttccc tgtcatgcat 3540
 gtcagtcgct cagctcgat acggctgata taatcttaca tgtagcacca gcatcttcag 3600
 acacaaagac agatttacca gtatctgcta cccctgttta accttcagca tcagctaggt 3660
 taacagggag catagaatca actaaccaac aaagatcctc ggggttggcg atcctgagct 3720
 accagatgta gaatcaaacg tcacccatgc gatacccaca atatcagaag tataagtcga 3780
 gctcgagtcc tggaagtacg tccccgtcca ggtaaaggaa gtgacattgc tccaggtcgc 3840

gccatagtca gtactcttcc aaagaccgtg accgctccta gcgccaaaga agagaatgct 3900
 attcttatga ggggtccaccg caagtctcta gttgatacaa tcatttagcg gctcttcctt 3960
 agaagatcaa gtcagggcag tatgatttcg cgctcacctc acccatccca cggccaggca 4020
 tgttcccacc cactttaaac ggcagcgctg tttctgtcca ggtctcgctt ttgtccgtgg 4080
 agcgtagtat agccccgttg ctctgtgtccc attcgttggg gtacatacca acggcaagat 4140
 acagcctgtt tgtgtcaacg ggggtcggtg cgagcgcgtc cacaccccat cgattcctgc 4200
 acgattgtca aaccaaccat agaacatcca tagcggaaga aacgagcaat gataccagtt 4260
 actattaccc acaaaatcag tcagtggcgt ccatgtatcg tctgagttaa gacggtatgc 4320
 cccgccaaata tcagtgcgca catatgcaag tccctcttcg gacgggttga agacgatgcc 4380
 cggaacgaaa c 4391

<210> 1744
 <211> 4296
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1744
 gcactttccg tgataaggac gaccagtacc atgggcagat tctggatata gacctgggga 60
 cctgctcaga cccggggaaa gggccagagc cgagattgat tcggcacaga agagcgggag 120
 cagcaccatt attgaggtcc tgagcacctg cgttggtcca gagttctact gaaaagcttg 180
 gtcacgagta gcggtatcga ttgaggagaa tgaccatgtt gagattggaa ggtctggagc 240
 cggactttgg ggtggagaat aaggacgaac atgagcacia acaaaaggga gtataccgag 300
 tacagctaca caacaaaact acgacgtgga agcatctacc taagacggcc aagatgaagg 360
 tgatgtcgcc atctaacagc acctgtgaca tcggttgccg caaatatccc agccttcttc 420
 gaccatatca gggtaaaaac gaaccgcaac tcccgaacga aatatccaat acccttccaa 480
 accaggacag cggaaagtct cgcatagcac ggcagtgcaa tcctccatgc cccaagtccg 540
 gcgtttgcaa ggggaaccag agcctggcat tgttacgcgg ctttttcttt cttccccaaa 600
 gatgcggggt cgtgataaag gccgaagttg gatTTTTTggc aactatgata ggTTTgattg 660
 gattaagaag cggcaattta ttcatacat tagcaataaa acctcaccct ggacgagttt 720
 ggcaatgtgt acagtgtgat ggtgtgactg cgggtgtggt tgtggtcata ttgcttctct 780

attctgtgct atagttagcc gggactcaat aggatattaa tgtacgagag ctcgagtgca 840
 ctttcctcgg gaagattact gtggcccaca ataggcgcat aagcctgcat atatctagag 900
 aatatgccgg cacagactga tgcattttct cattcccata gtagcgaatt ggcaagcgga 960
 caatctggta ccatgtgggt tcagtgtctt gaattccaga caccaactac tttactgtat 1020
 gtaaagcacc tctcctgcgc tctgtataca tgctctgcgt ggtcactggg tcatgcatg 1080
 gccgtttcag acattctact aacagttgga cgatccagcc aaaggagtca tagggtcaga 1140
 cagcctgtac tcttgtgcag ccaataacaa gcagcaagca ccaaaaacaa caggagatct 1200
 gatccgcagt caaccgtcac ttgtgagcga gtgcgaatac agacactttc cagcactatg 1260
 aatccatggc gccctccaa atctatatgg aactgtcat cccgtcagag tcggacagac 1320
 tcagatccta tactaggggt gggatatgagc aatacccaaa tatttcacag aaaagttcca 1380
 gttcgtgac gagcagatac aggagcctga tataggcaga caggcaggtc ctttcgagac 1440
 agctgcatat atccgatagt acgtggaccg tcaagagtaa aaggatctgc acatagcata 1500
 tctgcagata ctgcagactc agcaccacaa tccctaccat ttcacgacac tgagtcccg 1560
 ggttttgaag tcccagctcg attagcggac tccagcccc gagccacgtt gatagccgga 1620
 ggtgccggaa tcggatgcta tgaatattct aattgcgtct gcagacaggc agctgccacg 1680
 ccaacccatg ctgtagtcgc ggactagtgg catggttcgt tacacagcag gcagacagaa 1740
 ttgacgataa taataatacc aggcgttaat ggagaagcct gtgcgacaat gggcggaaac 1800
 acttgcctt gttaacagca gcagggatgg gccgttttcg agtacgaagg aaagcagatg 1860
 atcaacctcg tcggcagagg gcagcgggtc attctctaaa atgtccgcta gcccggtggc 1920
 gaagctgtca cgtctgcaat aatgcacgac attcgcgtaa ttaaactcgtc cgcgacaggg 1980
 gtgttgaccg acgaactctc taggtctcag tacttagttg ggggcagaaa gactagagga 2040
 ttttctgtat acatgcctga ccagccatgt tactgggaac acagcacgtg ctgcaattcc 2100
 ctacagccaa ggcaagtctt agcccatagg ttacgtgagg gtatcaccta gcagccctaa 2160
 agcaatatca gcatcaatcc tcttcaatcc tccatcaacc ctcttcccgc tatcttgtcc 2220
 gctaccttgt tctcaactcg gtaagccttg cgccaggcca tctcgcaaga gccgaactgg 2280
 ccaatcctag cctgagttca gagcaaccaa gtgagcacc taacttttca gctcccgtag 2340
 tcgttcgcta gtcgcgtgga ccgcaaagat cagcgccagc aaatagttat tggaccaaaa 2400

atctacgcta ccgaatcggt aatactagcc ttggccgtgt tctgtcctga cagtggccga 2460
gagaggacac gaagcctcga atcaaatgac taaagatatg cctgaatttt tgctttaccc 2520
caaattctgg agtcgtgaga gggtctggcg ggtgggctga atgcggtcct cgtaagattc 2580
gaaatacgag gcacttagca cgcttcgtag tctgcctgcc tgtctgccag acctagagat 2640
tcgacggtga tagtgaccat gatcaaaacta gacactgacg ccataagggg ttcggttgcc 2700
gttgaatttt ggtatgctgg gtcgaatttcg atgatcgatc gggactctcc taaatttgcc 2760
accctcgtgg cattgaagga agaagaatcc ttggttctgg aagacaaaaa attgtagtct 2820
cccatggtac agcattttact agtgcagaca tagtttaccg ctaaaaagaa aattagagat 2880
gcggtgtaac aagcttgaag atcctcacgt gcccggtcta catcggtcaa ttttcgggcg 2940
agcgaaccga gcttctccgg ttcataagagt gtggcgcaaa actgtcgctc gttcagaaca 3000
gtagtccaat attattgttt agtagtcgag gaatacgcg ctaaaaaccc caaacttcca 3060
acacgtcagc tgctggaagt aggaggctat ggatgctttg acctatcgat ctcggtactca 3120
ctggtacttt gccaaaggta gaggtgaaag aaatgacagg ttgacagata aatctcattg 3180
gtggtgcctt tgtgactgag cccgagtaaa ctcaatctca gccttgtctt tcagactcac 3240
ctagacgcca aacagggatg agacctgaga ctgaggcgct cgcatttgcg agatacgggt 3300
agatcaaacg ggaaaagtcg ctgccaggag cctgctggat tttgtcagcg aagaccgcg 3360
caagacacgg gatcgttcta gcggtcttcc agaactcttc tagagtcttc taaattcttg 3420
gtctgtaagg ggctcatccc ttgagtcagt gagctggatc agggacagcg atcatcgaca 3480
gcgatcatca cagggcagat gatattatat taattcattt ctgaaaccat ggaatcagag 3540
ggggctttta tgatctcata ttcttcgaca ctgatttgct gttggccagg tagtgaggga 3600
aataggggta gacgccccgt taataaagag tcggaaatgc aggatgaaac acgaaactgg 3660
acagagatca tgtcaacttg acacacatgt caactaccac ctgtgctgtg tcatattttt 3720
aaggcggaga atttgacac gggtaaagtt gatatgacac cctcttgggc ttcgctcac 3780
cgtcaaaagc ttctaccgta aaaaacattt tacggagtat cccgttaagg gaagataaca 3840
cggcctgagc aggagctatc gaaacacccc gaatcttgaa gccataacct cctccgagca 3900
gctgagcggc gggtgactgc caatagccgc tccaaactca caatcctatt tcatcccaa 3960
ccctttctct cccaaggctt tttccttccc tccacaaact cttattcaac atatatacat 4020

actcctttcc atcaccaata acttcctcaa atccaagata ctccctctca tctacctctc 4080
 cttcaatcct tctctctctt caaaccttat atcaatactt actacaacca caactcctta 4140
 aaccttactt aatcctcact ctcccacctc tctaacacc tcaacttacg gtctaacctc 4200
 ctccccataa tttttatctc ccttcacaac acaccctcca accaccctcc cccccccag 4260
 agagaaaaaa tatttatattt ttttttaacc atatcc 4296

<210> 1745
 <211> 2922
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1745

tatgaatata taagatatgt atggagagat atgagagagt aagatatgta aaggataaaa 60
 tgaagagata taatttatta aataaaggaa atagataaca atgagatagt tataagagaa 120
 ataatatgta gagaggtaga ataataaatg aaaatgaaat atatgggaaa gtatgatgtg 180
 aatcaagagg aagagattta gggataagaa tgttatataa ttagtgagaa agaatgaatt 240
 atagtttaac attgaaatat gttatattga aatatataaa ttccagtaaa agtggtttata 300
 cgatcctcga cccctgtata taatgtctac ccttaaagaa taggggtcaaa ttacattgg 360
 ccatggcgga aaaaagagtt taggttaatt ttgtaagccg gccagaattc aaggaaaaat 420
 ggtataagct cgtgccaaagg tttcctccat ccaaggggtca atctcataaa gggttgtctt 480
 caaaaacacc tggcttgtcc ctggcctctt taaatggcca ggttcaacct taagccattg 540
 atcctcgac tccttcttta gttccagggt aagctaaaat ggcacctca aactggcctg 600
 ggttggcccg tttcttcagc acccagttgc acggtatggc attttctggg gcttccggat 660
 tgccatggca tgtggtaagc tcccatgacc aaactttgag gaagcttgat aatgcattga 720
 gcaaaatgtg ggaatatgga gttagtagcc tgcaacatcc agccaagatt tctctttcgc 780
 ctacaatctt gcaatctcgg cggggctctt tgacgtgata gatgcgaaca atcaagattc 840
 ttgctacggc cattgtactc gtcataatac gccggtcaat caagcctgtt agtagtcctg 900
 ggtcatagca caaggttcgt acagcttaac agattcgcgt gggcccatat ggctcttctc 960
 tggaaacatg gttgtcccat gagcctgtcg atcctgcttc cgatacgcat acgcatcaaa 1020
 tgtttccatg gtgcagcatg cgtagcctga cttgcctgag cgcccgcggc gatttattaa 1080

cgcactaatt caacatgaga tagcaagcac tggaggcagt tccagctgtc tatctcgcacc 1140
 ttgggttaga gtgatatttg accagtaacg gagtaagtac ttacaacaat gcaatatttg 1200
 ggcgtatagt tgtcctggct aacttgggac aatagtagat aatcagtcct cttagtcctt 1260
 accgccggct cgtggaaaca gggggcgctg tgtatcccaa gccataccca tctagctgag 1320
 ggttaccaca atccgacctc cgatctgttg agtttatcaa tgtgtatgat taagtattca 1380
 aacggaacct gaaagaagtc tacaggatcat agcggatgat cccatgggtc ggacgtctga 1440
 tggtaacca gcaaatttgg atcgccctcc tcatggaaaa aagaatatga acgcgtattt 1500
 taaggtttac attttgagtt agcccatctg actttgccat catatacctc catcatctat 1560
 tcaattataa caactgtcaa aagtgtcacc ctctcaggtg aatgtcactc ctttcacaca 1620
 aagtagggag ctgtccaata ttgtgccagt ttgcttcctt gttaatcatc gcaatcattg 1680
 ggaattgag ttatatttaa cttgagcgtc tgagtgggtg tttagtaggg cttgtataag 1740
 aatgatttgt attaaatgag cactattcat ttgtttatac ttcagccttt actggcccag 1800
 aagcaaacat taccatactc caaagtcatt tcttgttctc atggaacata atattctcct 1860
 caaatagtat tccccaacgt ggcatacatc tgccctccat gtgatcctgc ttttttctaa 1920
 tcaactcatg caaccagcc tcaggcctaa taactaatcc actcctccca ctccctccat 1980
 tcgccgtcca taccattagg cctcctccga aattcgacgc agactttgcg ggactcagga 2040
 tggactgcca gccaaggac atggatcctc ttaaattcag gaactagctg atcagcatta 2100
 agtccgaatt ctctgacaac tttagccgcg tcgcgtatca cttcaagaat acggccttcc 2160
 cagacgccat ctggataggg tatggttgat aatacctcga tagcctcctg gcggacttgg 2220
 gagtttcggc atttggttgc gacaaagtac agggggtaaa taacacccat ggagacgggg 2280
 acaccgatag acgaagacct agaacagaac gcagtctcaa aatgctcagt gcaggcttta 2340
 gccaaagcaa tgatgcgtcg aaactgggct aaaaactgat catagagcgt ttcctccgcg 2400
 tatagacatg tcgacgccat tatacgcgcg acgtaatact gaattagcaa taatgacgct 2460
 gccgccgaca ctgcgggact actgcccagt gctttctggc atgaatacga gtacgtgaag 2520
 gtcgacttcc agacttcagg cgggtgctgaa acgtgtgcgt gcgtgcgatc agttcgagcg 2580
 gaatatgacc gggctcatgg tagcggtagc gtttggttgg tcggcgccca aagtgcagga 2640
 tttgcgcgtg ttcatgcac agcgaagttt ctgcgtcgtg gagcgtttcg aagacgtagg 2700

ggattggtgg tggccttttg attgaagcgg caggagcacg cataccgatg tatagcgttg 2760
 cttgcatgtc catcttcata tacgctcttc gaatttccgg gttaatgttg cttttgccat 2820
 gtttagtggt tataggacga tctctgtctt tttccaagag aattgacaag gagtagattc 2880
 ataccttctt tgaagagctg gacgaaggat gattctcaaa cg 2922

<210> 1746
 <211> 4380
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1746

agtagggacg agcaccgagt gactactgtt gtcactatc tcgaccgaga tgcgtttgac 60
 agaaccatga gcccatccgc actttgataa tgctggactg tagtggtcgg tcgtccaata 120
 tgtacacata gtgttccctc gtacagtctg ggtatctagg cttagagtag tctgcgttac 180
 ccctatagag taggctccgt ctccaatcta gtgaaggatga tgcacgatgt ccaggcccgga 240
 gatagttcta tgctaggagc cagggtcttt gtgggtcggg gccctgtcac ggtccgtatg 300
 gtatgggact aggttaggat cagctgtggt tccatatcga taggggtgac cgtccgcca 360
 cgcccagttc atttgtcat tagatccagg ttgctgtggc aatgtgatct tcttgcgga 420
 gcaacagtca ctctgccaat ccaattcgcc ataccagtt ttttaattct cgaattttcg 480
 aatgtgtagt taacctgcca gtcattatca tggccatatt caaggatcat ggcttggcgt 540
 ggcgttaaag cactgggagt ccagggaag cgttttatgc aagccattat gtaagcgggg 600
 gaagatatgc tgcacttccg agaaatccgg cgggtcttgg cttggatccg ccgagtttcc 660
 ctcttcaaat atcccttgta tcttattatt aattgctccg aacattattg attcgtccga 720
 ttccgaagct tctagctctc aggaagtctt atgacttccg aagtgacgca cttcacggtc 780
 tacacggtag catcatgaac acagcttctt cggctgcaaa gccaacggtt cggcttccat 840
 gtgtcctaga tttcagccga cccgtcaagt ccctatcggg tgccttctgg atctggaagg 900
 ccacctctt tggtgccata atcagctctc cagggttgg ctatgataca tcgtcgagcc 960
 ttcttccgct cctggccaac ggctcggctg agaccgccc agataataag aatctgtctc 1020
 ttccaattcc gctgaattc gtccgatggg actcgatcta cttcgttcac ataggccagg 1080
 ctgggtacgt ctttgaacag gaatgggctg tcagttctgc atacgggtat ctggtcaatt 1140

ccttgtcttg tcgtatgtct gctccccat tagtctttgg atatcggttc taacttattc 1200
 agtttttttc ccatcgatg attcaaaggg agtagcagag ttcgctatcg ctgctgttgt 1260
 gctgtcacat gtggcccatt atctttccgt cctaacattg taccagctct ctctcagtgt 1320
 ctttggctat gagaccgaga gaaagaggct cgtttgcttt ctttctgcgg ctctgcatat 1380
 catctctcct gctggaacat tctctctgc gccctatgca gagtctctct tctcattctt 1440
 gaacattgcg ggactctaca gttactcgtc ctccctcggt gatctcacca agcgaaagca 1500
 gttagtaagc catgtgaaac tctcatttc gggatgtttc tttgcgatag ctaccgctgt 1560
 gcgcagtaat ggcatcctca gcgggattct tctagcatat gaggtggctg ctgcgccgttc 1620
 gccagagca gcccgccgtc tgtgcttcgt cattacgagc ggctgcatcg tcgccctggg 1680
 gtttggtatt cctcagtact tagcgtaac cgcatactgc tcgaatgata gcctctcccg 1740
 accctgggtg cactcccttg tcccaagcat ttatggctgg gtccaggctc attactggta 1800
 agttcttgag aagtttgctc cagatttagc tacatgttaa tatgcgaaca ggggcgtggg 1860
 attattccga tactggacag tgtcaaactc tctcttttc ctactcgctt tgccaatgct 1920
 gcttattctc tttcagtcct gcttctggac tctgcgcgca ggagctccct gctggcttaa 1980
 aaactctgct gaagccggtc gtcttcattt gcccgattcc tcagcccaat tgcttaaaca 2040
 actcgctgtg gtccagctcg tgcttgcgac aatggcttta actagttatc atgttcagat 2100
 cattaaccgg atttcgtctg ggtaccctct gtggtattgg tatcttgcta accaagcttt 2160
 ggaaatccca aatcgatcct cgtccgtggc cagatatagc agtctgttcc tggtgagctt 2220
 acaagcaatg gtaatttatg cacttgttca aggcgttctt tttgcctctt ttcttcctcc 2280
 ggcttgaagc gttgcaggtc gtgcattgtt ctctgggaca ggcttttgat agtctattct 2340
 cgcattatac ccacatgctt aataattatg actaaattgt ctttatttta gtcattctag 2400
 gtcttcacgg cgttatttga atagactcta cataaatcac catgcaaaaa gctcagcaat 2460
 tgtggttgcg aaagtcttca gtgaggtagt gacttacgct ctctgtctg cccacaggtc 2520
 ttaaccaaca cggctcttca ggccgctagg aggtaatcat ataaccactt ctgagccttt 2580
 tgtaatagat tcagtttctc ccacttctgt tgtgtccctt gcgaaactat tgcattctga 2640
 catcatttct gtacttagat agtgagctag ctcagggtgg aaaggtggac ggatgacccc 2700
 gtctttcacg agtatagcat cctaagacag gagggggtgg cgaatgagat tattgcccc 2760

gatatatttt ttggtgaatg tttagaggtg cgatttagaa acatttatac ggtgctaggg 2820
gtagcttgtg tgtcagcttc tacctactta gacagaacat gcttaactct cccacgacga 2880
ggatcgaact tgtaagctgg agataaagcg ggcttgtgtg gggcgctggg ccagactagg 2940
ctgcgagctc tgttacgtag gtagcattat gtcacgacga gcctgacacc acaagccgag 3000
acttatggct gtcttctact gtcgtgctg agcttctttt atcctcaatt ttccagctcc 3060
caactctgtg tagaataggg ggcttttgcg aaccgaattt tacctgcttg ggctaatttc 3120
ctggctatac cccttccacg attggtatca ttgctgtatt cctttcgatc gcaactgctag 3180
accaggtcta ttgggattcg tccaatgcga ataaacgacc tacagcaggc tactgtcggg 3240
taacggtgat tatactctaa cttctggatt cgagctctat gagtcaatgt atagcgctgc 3300
ttgttgtacc gtcactttga catccgtgta gctgacatca gtgttatgat agagctttcc 3360
cgcactctcc gaattcttaa catccgcaca cacagcaatc gtcgcacaag ctgcagatta 3420
tggaacatcc aaactctaaa actatattaa caccggacaa tttccataat gtacatacga 3480
tttcacgagc cacatccccg ggtggtggac ctgacggcgt caacggagac ggcgagccta 3540
aagcacgagt ccgaccacgc acatatactt acttcaagta cctgccatat cagacagagg 3600
atgaggccca gcgggcacga tatcttcgag acatactgac ccagctctat attgcggtgg 3660
aatcgggcca tttcagtcct ggtgcggtgc actggacacg ggagctgaga gcatggctat 3720
cgctcaagtt tgacccgacc cgcagtgacc ggatcaagct tgtaagctg tactatgagc 3780
tctctctagc tcccggcatc gaccccaacg tcgccgagcg tttttcgagc atgttcatgc 3840
ttctcacaaa gtgagtgcaa ctctatcttg caggtatttt acgcatgcca atgctgacat 3900
agtcccagac gcaagcatta cctaaggcca attaaggacc tgacgttga ctggagacct 3960
ctgtacagag aactcaaagc attcgttctc ccaacagaat ctggcctcgt acattcttcg 4020
aacctcaagc ggaatgtcaa gactttgaca aagctctgcg catttatcca gctctacgtt 4080
gatccttgtg agcttccagc catgctggag gaggctcttc cgcattacag cacctctttc 4140
tcagaaggcg cgtttgcgt agtcggacta atcaatttgc ttgctccac aacccaccca 4200
ccggagtcaa gagaggattt actaccgag cattatatgc caacatactt ccatctttgg 4260
tccttggtta gccggtcaaa aacttttgat cagacgttcc tcgacttctt caacaacggc 4320
gcggaactca ttgctgctg gacatattcc gttttcgaa gtatggcctc acaccaaaga 4380

<210> 1747
 <211> 4047
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1747

```

aattcgcgat tgatcgtcat tgtatgtagg attgatgagg tgaaaacgcg ttatactata 60
tcatagttca ttctccaagg tatggcaatg caaactgaga ttcttccatc gatccacgct 120
agcctgccct tttcgcagga agttacaacc tagtccaggg cttcagaaat tgtcttgga 180
acttcacgcg ctataaactc caaatcctaa agctttattc ctcgcatgga atgagcgaat 240
aaggcagtga aaagccgctg attactgtca ttcattccact acttgtttaa agctctgcca 300
tcagtaaggt cgagtagctt taatagtgga cagaattcta ccatggtcgg cgtacttgcg 360
gcagccctga gagagcgcta tacagtaaaa ggtggaaaat ggggagaaaa tactgctgat 420
cctaaccttg ctcttctggc catccaattg cactaagacc ccaattgtga gaaaaaaaaa 480
gcgcgaacat tcgccgcctg cgcggtacga cctcatgggc cgttggcgat aaagttcaga 540
ctcgctactg cccgcaagga agtaatgcaa cgaactggct tgaacactgc actccttgac 600
gcaatgggcc ttcaacttcag gagtagtctc ccagaccaca gctagagtgc tgcctatctc 660
cgctaacca tctcgtgacg tccaacgtcg tgggcgcatt acagcgggtg tgaggtgtgc 720
ggtatagttc gacgctgctg tctagcatgg gtagtactgt aagcagcctt cccgattgag 780
ccctagcctg cggcactgtc actgttcctt ccaaaccctg actctttccc actaccagta 840
gcctcattac ccgtcgtatt attactactc gaaagtctaa acgtgctatg aacccaatt 900
ctcgacctag ccgtcgatgt cggctctgga acctgaaggc cctccggccg tccggcaaatt 960
tcaccaagac cagaagaatt agggtcggta gttgggtcca acagttccgt gccaggagca 1020
gggtgtgacg acccttcagt gtcattctgtc cggccgcctt ccacgtcagt ggtcgactgc 1080
atcttcaaca tctctacgcc gatatacggg tcatagaagt tagagcttgg ccggccctcg 1140
gttgtgacgc cgctgcggcg tttgttgccg cttgtactgg gacgagatgt agactttgaa 1200
gaacgagagc gacgacgact cgaggtcgag attgagttgt ttcggccgga accaaagttg 1260
aagccgaggt cattttcaag ggcaagaatg cggtttgagg tgcgtgtgga tcgggagcta 1320
ggataagggt cagaccagga tatggagcgg cgatgcttgt ttcggtcatt gctagggggtc 1380

```

gaagggtcgt cgaaggggtt gtaggggaa gaggaccgat tgtggaggat gcgaaacaag 1440
 gggcggttg ttgcgagga ccccgctgtt atggaaaggc cgacctctat gcaggaccag 1500
 attgcaatct atttttgtca gaggtttggc tttgaaggag gacaattagt gctcacttga 1560
 acggttccgt ctgtgtgaaa gtagtttatt agcattggca ttggatttgg gggctggtag 1620
 caccacggag ggtgaagaca tacaaagata gtcagggta tggattgtct gaacgaaagc 1680
 taaccgaatg atgatggcga tgctcgact acatttgcct gctcttagca taccaaagaa 1740
 gacatcagca aggagaaaca atggaatgac gcacacacat gccatcccca gaagacccgc 1800
 aacagctgcc ttagtccgtc gattcatctg cagattgcgg acgaggataa caggcagcaa 1860
 agctactgtg aaatcgaaga gcgccgacga agcactgaat atgtacaaca ttattgctat 1920
 agcgtcgaca tatccacagt gtccatttgt atcgccctc atccgagtcc accagaatga 1980
 gacaggagag cactgtatga ccaacaggac gaagaatggt atgccactgc aaactgagag 2040
 aaccgtgacc gtatagagtg ctgcccgatg gcaggggaag ggcatcacgc ggaggagaaa 2100
 gatgcaaacg gatacttttg caagcacgga ggagacggcg tatgagatat tgcagaacca 2160
 ccagtactgg aaggtcagtg aaatttgaag ctgacacctg cgcatagaact agggaagcta 2220
 catacttcca ttgcagtagt tcgttgctcg gaagtcagct caaagagatg cttccctgtt 2280
 cccagagag acccgccgat catgcaaccg cagaacatga tgtaaagtag ctgcagattt 2340
 agcgccgacc ctaaacaag acaggaaagg agaggtttac cattgcagct aacataacta 2400
 tatcatctcc gccaaaggcc ttgacaatgc gcagacgcac atagcaacgc aaaataacgg 2460
 caacactgga cagcgagagg aacgccgtg ccacaccag gacagctgct ggccgatcta 2520
 ccatgacggc agacaaggtg cagctgcaga tctggaagaa gctagcagct agcgaagaac 2580
 aacgcaggtg ccgacgcact ataaagcatc acgacaaatg acacaggttt gatgcggaat 2640
 cacaccttg agctacgagc tctcgacatt ctttgaaca gcatttgtgt gtcaggattc 2700
 ccgcatttgc cactgaaac cccaccccag cttcgacata ttctcggcaa tcgacgttct 2760
 cggaatgtcg ctccaaagat tctttctcgg gaatcattgc accgggcact ggtggggaac 2820
 gatggcactg caagctcgag acccagttac atcaaattcc ggtgggttct tgaagtccca 2880
 cgtcagtttg ccgtgattcg gtcaagcagg caggctgctg ggctcagtgct ctgcgcaa 2940
 tgtggattgg ataagttgct ggcttgcagc tgtagacttg tcgacgatgc gtgaatggaa 3000

tatgctagca cctaaagaga aggtctgaaa ggcggcgggtt gattgttgac gaggctgatg 3060
 ttgtgggaaa gttcaagtcg caagtcgcta aatgggcagc ccaaaaagcc tccccctccg 3120
 acccaacgag acccaagtca gaaagaatta ctaaaaggaa tctacggcgt atcaaactgt 3180
 cactaatcgc acttctcggt catttacgaa ttgacttcgt atgtaaaaac accaaaagct 3240
 agcgcaatga actatagatt gcagcaactc ccaatcacat accgggttcc gaacaatgcc 3300
 agcagatcgt tctgcaactc tagccagctc atttcaagaa cttgctagca aggctcatga 3360
 gcccgccggg accaccagtg ccctcacttc cactcatctg acttttcaag tacatcttga 3420
 acgccatttc cgccgcttg ttaatagcgg actgcttgtc tccgctctgc acgcacaatc 3480
 gttagctgac aatgacattc atcgcaaacc cacatgaaga tgcaacagta aacagaaagg 3540
 acgcaaactt acagcctccc cttttccagc cttctcttcc cacatcttcg cggcttgccg 3600
 catggccatc ccaatgaacg cattcttatt ctttccacca cctgtctcct ggcttgagct 3660
 tgaattgaac atcttcagcg cctgcaacgc cgccgagca ccaaagtcct ttgagtccat 3720
 gtttccgcct tgctcgtagc gtcgatgggc gttcacagcc tgctcctcgt cgatgtcatc 3780
 ttggacacct tcagacttac gctggttgat aaaggaaaga gcttggtgaga agagattgga 3840
 gtcttcggag gaagcggttg cggaggcatg ggagagagct ggcttcaggt cgtctttgtc 3900
 gtcgtccttg tcgaagtggg acttgacggc gtcgacgagg atgttttgca aggacatctt 3960
 ggtctcgtga atatgagtgg gagtaaactg gaatggactg atggattgaa taacggtaaa 4020
 agggggacgt acagctttgg tagggga 4047

<210> 1748
 <211> 1749
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1748

atagttttca ccgggaccgg atactatgat agcaaagtaa attcagacca caaaagaatc 60
 agacatatat atgcatacct gtaaatacta tatattctgg tcataattag gctgccttgt 120
 ctgtaacctt actattatcc taatttggca cgtcatccaa gcttgcaata tcctgcaaga 180
 cctcggggta aacaatatta ttagtgggtc gaatacctgg cggcagcaag aactaagtc 240
 gccgcatatc tgtaaccgcg gacattgcta tatataactg accatgggag aaagcaggga 300

cccgcaaadc cacacctacc tgctgcaaag actgaccctg agacttattt gtgggtgattg 360
 caaagcatgg atggaccgga aactgtgttt gtgacagcat ataatgcaga tcgccaggct 420
 ttgaatacag ggtaatccgg gggatgcaat gagcctctga agtcacctgt caagatgcac 480
 gcgcgggattg tatagcggca taactccata atctgcatcc gcgtactatt gcaaagaccc 540
 tctgtagccc gtaaattccg cagcaacatg atcagcatac caaccttcaa tcataatctt 600
 gctgggggaa gacctggcag atccacagat tgcaggaatt cacatgtgat ttctctcacc 660
 ccttcagcaa cattgtccgt caaggcctcg tcagcggaat accgcataga ctcttgactg 720
 cgcattggagt ccataatata gtcattgaac tcaaccaagg cagagtttcg cattgagagt 780
 attgcacggc ccgcaaaaaa gtccgggtca gacgcctgaa agtcggcagt gtggcaatgg 840
 gtcataatctg ctgccggaaa gacctgctcg cagagttcct caacggacat agacgcgcta 900
 tccattacat agtcgggcag ctccaaggta ccatgcattg tattatcaac agacatgcga 960
 gcgagtaact gggagaatag gcgattaatg ccaactgacg ggagacgcat attctgggtg 1020
 agccgtaaaa tagcccgtaa ccttggccag atgggttagc ggacagaaac acatgcatag 1080
 aggataacaa acccggcagg tatggcagcg tgtcgcctga gatctccgtg tggcagaaaa 1140
 ttcatcttca ggcttcgagc gcaagcagcg cgagcagtat ctatagccct ctacagcgcg 1200
 ccgtgatctc tgccggcctgg aacggactgc aaccaatccg ggcgaggggc tagatggcgg 1260
 cggcgagggc ggaggacgtg aatggagaac tgagggaggc ggatccaaga aattgtcctc 1320
 aaacacagta accaccgggc tggcaggagt ctcatggcc cgtatattga gattggctcg 1380
 gctcaacggc tgtaaaggaa cactaacacg cggaccacgc cgaagctggc tctggcgctca 1440
 acaggtgaag caagacttcc atggaggaga gccacgcccg ggaggatcaa gcggcctgaa 1500
 aaattcgaaa tccggccagt cagccaaca gatattacat cagtgggtgac cggaaacagg 1560
 cgccgaacgt tttctaggca tatgcaatag taggagagtg caatatgaac tatacagata 1620
 tgtggaattg ggaagaacac ggcagcgagg tgtttattga cagaaggcgg cccgtagcga 1680
 tccgtaacgg acgcgaagaa gaataagtga cgggtgggtg tagaatacat catgggagta 1740
 tattgcatt 1749

<210> 1749
 <211> 2301
 <212> DNA

<213> Aspergillus nidulans

<400> 1749

acaactctta tctgggccag gttgatcccc tgggtttcta atcaatatgt agactaccta 60
atgtatttca tgatacctct cagtatttac ttcaatgcag tatgcagtat atatataat 120
atattgaaat actcgtaagc ggttcgtaaa ctgcctctac gtgcataata cggctagttt 180
tatactcacg gattacaaat ccggtgcctg agaaatcact gtaaaccacac gttgcgcact 240
cacttcttgt tgattcagct cacatctcaa gccatcttct agccttacct tcacagagtc 300
acatctgcag acattacttt tcagaatctc gtattcgaga agctcgcgta cggaaagatg 360
gtccaatctg agtgttctga gaggtcctgc ccgttgtgtt cgatacgctg gttggacttc 420
attttgcctt tgcacttcgg gtaccgtagg gggaaggcaa gataagggtt acggcagaaa 480
tgaagttgaa ttaagccatt gttctccttt tctaatacta ggatcagata ttgagctttt 540
tctccaatca aatgagaaat gattaggaag tcgaatgaga ttagaaggga gttgtataag 600
atatactgag aaaatatgtc tcttgcataa taccacggt acagaacagc tcccacaaa 660
aaaaattccc ctttgacttc tctcattgtc ttaattttca cgaatcaatt aactttaaaa 720
acaataatag aattacgact tagctggggg gtgctatcat cgaacacgtg accgttcaag 780
aaccaattct aattcgactt gcgctctatg atgttctctt ttaaacctcc ctgcagcctt 840
caaaatggag aataacgctc gtgtctcgag atctcgagca agtaggccta aagttcggac 900
gggatgcatc acctgcaagt gagtcaacgc cgggccttaa gtcaaattac ggcgacactg 960
acttgtaaga ggatacggag agtcaaagt gatgaaggca aaccatcttg ccaacggtaa 1020
gatgcttagt acccagcgc aaattagggt ccgctgatag cctcagctgt ctaggcacgg 1080
ggcgaaagtg tgacggctat gctcgacgtc cgtctacaat aagtgaagga ctgccgcagg 1140
aactggctgt gtccacaaca gcaatctcgg ctagcgagac gcaagcactc gagttcttct 1200
tctgcataac ctcatcttgc ctgctggct tcttagacgg cgcattttgg aggcggagtg 1260
ttcttcagct tagcctttcg gagccctcaa tacgctggc aatagctgct ttgggttctt 1320
tgcatgaatc tgaagtatct actcatcagg gaaatgcgc tcggtaccaa gtcgctatcc 1380
agctgtatac ccgagcgatc cgctccacga ttgataaggc gtcgaccggc agccttgcta 1440
cttctgttac tgtgatggct agcattctat tcacgtgctt tgaattcctt cgtcgagacc 1500

.ctgctgccgc tgcaaccac attctaagcg ggataaacat cgtgcgagac tggcgcaata 1560
caagtcgagc cgcacaccaa ggtccttggg gtcggaacta tcaatcctat gaagcgtatt 1620
tcattgagac ggagctcgcc ccaattttga ccctgtttta tttgaatgct ctggaattta 1680
acgaatttcc ccggagcagg attattctta acgcagtcga taatcgcggt ccgcgcctgg 1740
caggccgatt tgagacactg caggaagcga gagttgcgtt tgtggacctg gtcactgcat 1800
ccacagatct tttccaacgg ttggatcatg atgttgagtc cggagcagtt ccctctccag 1860
atgctttggc tgcgtcagag gggctttgtg aaggcttcag ccgctggaaa actagtttcg 1920
atgatctact cgcgcgccgc gagtgtactt ggaacaaaga agagagcgac gcagcagctg 1980
tcattcgat ttcacgtctt ggggcagaat tcgggcttgc tacttacggt atcacgaggg 2040
aatgtgattg ggatcacctg ttagaagact acaagaaat ctgccatatt gctgaatcac 2100
tactatccga tcccactcac taccctaag agctttccaa gtccctcagt ctagagctgg 2160
gcctaattta ccctttgcat gctgtgcct ggaaatgccg ccatccgcgc gtgcgtcgga 2220
aaggactaga gctactcctt aaagctccga ggcgagagt gcttctggat actcgacaat 2280
accatgccat ctttttgcac a 2301

<210> 1750
<211> 3747
<212> DNA
<213> Aspergillus nidulans
<400> 1750

atcagatcac catccctcca gccaggatat ccgaacagcc tagttctctt ccagaggcgt 60
cgacctctcc ccaaaccac tgccaacca tagccgacca ctcagccctt tctccggaag 120
tagggggcca aacgctgcag gtctggctag gaagaatgtc gagttttcat cggtcaggct 180
gatgatggca gttggaggaa agagtgcga aggtagatta aaagagaaaa gcgaatgtaa 240
tcctgtcgct tgtccggcaa gcgagttagg cgttgaaaca cggggagaag aggtgaggac 300
ggagtagaag gtgagaaaga tagggaagaa gatgagacaa aacgcgagga agactagacg 360
tgagggtcgc atgatttcga tttgatgctg tgggagagaa atagtatttt tatggaccag 420
gagacggctt gagatcaagc tcgttgcgac actgtcagtc aagaacagtc cgagggtcgt 480
gtgtccgtca taggagcgga ctcatagagg ggaggtaagg cagcaacggg agaggccaag 540

gtcggacaga agcgggaagaa tcaagtaaag gttcagagtc aaatggcaga aaagcatcca 600
 agaggggacg agagactgaa aggtacaaag aaagcatgaa cgaggatcaa cgaagatcga 660
 ttagacttgg gatgtggttg gaacttggat gccttcacct agctgcagtg caatcaacgg 720
 gagccgagga gtcacgagat taatgcctca ggcattagaa tcacaccacc gggcaacaag 780
 cttcagcgga cccgtgcttc cagtcaactt ggtctcagag gataagcgac gtacttcaac 840
 gatctttacg actttatggc cctatatcaa cctgtttcaa caccctgat ctctctcatc 900
 cctggatgga gaagatcagt gacgtgacat ctttcgcttc caggcagtgc gggcgggac 960
 gagcgtgat catagcgccg tcacctccgc tccacgacca gcttgcacct gagacgcgat 1020
 cgacatcgac actcgggtgcc tgatgttgtg tcgtagggga ttgtccttgc agatcaagcc 1080
 tgcacgaacc gcggcttgcg aaagcataag gaacctcccc gctggtatcg accacaaatc 1140
 ccctaggaca gccgtggtc aacaatccga ccacaccac ttgtggaaat tgtttttcac 1200
 tcaccaggaa gttgaaatga tatgttcgag ctgtgggtcc attgaactgt ccagaaatct 1260
 accgggatga aactccagaa tctcttgaag gtcgaaccat ggtcgtgacg tcgaataaca 1320
 ctctttgcgg accatggcgg aaagcataac aacagatacc tcgaacgact ccgtatatgt 1380
 acagagaacg cttcaacagc cgaattcttc gcggctaggt ccgatttatc tctgctcagt 1440
 tcataatata ttgtgatcgt ggatgcaggc aaatccatag cagtgttaca agaaacccta 1500
 tagccatcac cgtctgttgt tgcaccatgt caaaattgtt gcagaagatg aaggacgtca 1560
 tggcgagctg taagctgagc tcaggcggcg ccagtaagtg tatctacgaa tattgatctc 1620
 tgaagcatga gaattaatta tcagttcgcg gcccgaaact taagaactat acagacgagc 1680
 atgatactta tattaccgac gactttggcg ataaagccta ctatgttccc cctcgcattg 1740
 atgattatgg actgagattt gggagctatg agagcaatcc ccggcctggt acctacggtt 1800
 ccggcagtta tggccctagt aaccacgca agggctacgg attctcaagt gctggagcac 1860
 actgttatta cgcggaact ccggcaggac tagggttcag tgacgatgct gtcagtagcc 1920
 ataatagagg atcaggatat cggaacggct ggtcctacgg acatgattat aggggccaaa 1980
 ggggctccat gcctatagat cgtgagcagc ggagcagttg gtgagatgat gtattgtgtt 2040
 tgtctctatt gtgattatga gcatttgaag tgcaggagca aggtaacctg cacaatagga 2100
 aagagttaac caacaaagaa ctgttttccc gtaattccca ataggcagga actcacctcc 2160

atccagccga tgcgagcata cctgctagag acacgagtgt tgataatctc gtttgtagat 2220
gaacgaaatc gaaagagggc aacctgaggt agaagttcct cgcctgggtg aaatcaacct 2280
ttctcttggg caacacaacc tgttcctggg cccctcgctc tctgctctc cttcctcaat 2340
acaattccct acacagttct tcatcatcc actctttccg gacaattcca gctaagtcac 2400
atttctgcaa acctatcgcg gtcgttcgat gcccgtttcg acgtgactat ttgccgaagc 2460
tccttaatgg cggccgcaga gatacattat tcgctctgag agctatgccc agacagtccc 2520
aaccttcgcc cgaaggaccg ttgactacga actttctgat gaccaggagc tggcatcctt 2580
gcagcctggt ttcttatcc aattgtgcag aaagagctct tcgagaaacc gagcaacgag 2640
gaaggcaaag gctcttcatt cggcaagcgc tgacgacctg acaggcgtct ctcggggcgt 2700
ttcagcccat gatgatgttg ataaacacga gcatttcctc cgactctctc ttccaggcta 2760
ctcaagcacc acagaatacg gttcggacga ggaatctgag aaattgacac tgccctcttc 2820
aaggctcgtt tcacaaggat atccatggca gcgtgatgaa agtcactctg aggccactca 2880
agagcagaca tggcatccga gtccaaaaga ttaccactct caaaaaaacc ctctaaacta 2940
tgctaccac aacaaccgtt ttcacccggg ggagaccagc tatttgctcg agagtccttt 3000
cctaaggaaa tcagaatggg acagctcaga gcatgggtct gggcctgccg acgcgatatc 3060
agccgccaga ccgtccccgt tagaaacgcc acagccctac ctttattcgc agaaagttcc 3120
gcagagggag catttgccag cctccttgca gatatatcga gagagttttg atcgctccaca 3180
cgataggtca ccttacgaat cctaccgttt gaaccgccgc ggcaatcgga ccgatctacc 3240
agaggttacc actagcttcc agtacggaaa tctcatgat ttggcgtatg aaaagaccat 3300
aggtaacata accattcgct cggcaccgaa cttcgcaacc catggtcgtt cacgtttgtc 3360
taattcagag gcggctactc actcgatcgc gacgcggaaa gtccacaaat cacaggaagc 3420
acctgtcttt gggtaagac tatcaagtgg taccagcacc tcccagcgga ccctaaaaga 3480
ggagatttac gccatcttgg acaatatgaa tgtaactcc caaacagatc ctggcccagc 3540
gtcaactcag attcgtgaaa gtacagagtc tccacctgct cgtgtgcttg gagtgcccaa 3600
ctgcttaaag ctgagtctcc agaattgcga tcgtatttga caagcaacga tacaagagcc 3660
gagccaagag acacaattat tagggctctt gatttgagga aagagcacat agatgtcaaa 3720
agacatcatt acagcggaca ctttgca 3747

<210> 1751
 <211> 2915
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1751

ttaataatat tacctaataca ggctttctacc tcggacagcc ctatcaccta gctaaattcg 60
 tatttcgtct agaacttcct ggatcaagga ctttagtttt gaacttcctg catggaattg 120
 attaatagtg tttcatgctc ttttctata cctctaccga aacagataac aaataacaga 180
 gtataacccg ctcagaaaact gctaggetga cctcgacaac ctagccaaga tccatgcagt 240
 ataacagcaa gagcaacata tataaggggc aatgggtgga tcatataatg ggaataatag 300
 tctcgatgac gctcgaccga gtaggggtcc aagattaatg ctttgcacac acacaccccc 360
 accgaccgct tctagaaatg cagcagaacc cgtttaatat caacacgctc tgagcatgaa 420
 gaaaaagga atcaagagct tccgtccata tatagacgat caaaatcatc gtctgcgacc 480
 tcggaaattg ttgcatctgg cgaactgaca cgggcggtgg aggggccttt taatacgttc 540
 tcggattcgg ctgcgtatat cgggttttcc tctgtggcca tctcgtgag ggatccagcc 600
 agtgggttga atgaatagcc cgttgggctc tcatggcagt taaaagggtc gtatccgaca 660
 taatgtgctt ctccgaaaag atactggggt gatattcttc tatcgggtccg cttcatcgca 720
 ggtgagtgcc aaccaacaag ggggtccatt cgactatagg cgttcagcat ttgttccagg 780
 ttctctttgt ccacactgag aggacctttt tcgattatgt tcaaagaatg agcagcggta 840
 tgaggagact gaagatcgct atttattgca atatctcttc tcaagaagag tggttgagag 900
 gcagctgtct ccctttgagg aaacctatgc tgatcctctg ccttagactc tcgtgaaaact 960
 gacatgtctc ggaatacaac aggtttgttg tgctgcttca agtcatgggc acgaagtgcc 1020
 aacgcaaatt cctccatgtt gtcccgaca gagatctggc acctaaacga ccaaacgctt 1080
 ggacagctcg ttgaggagta tataaacgtt gatctatatc ggctcatgg gggtcgcagt 1140
 cttgcttgac gttcttctta gctcttttcc cgtccggccc gcgttgagtg tttgggtcca 1200
 tctgagcaaa aactcgcttg gggcggtg ctcgcttctt tggaatcggc gtctcacctt 1260
 tcagaggact gctatcttca acgttgccc agatcacgag ctgcttccgc aggatgccgg 1320
 taggagaaaa taccagttca gtaggtcca cccatcgac gttcttcca tcatctttag 1380

gacgctctcg cgcttactca ggtggatctt tcgtttcatt tgctccgtgg cagagtcaaa 1440
gatatccatt ccggggccaca acacgccctt gagccttgag atctcatctg ctctctacac 1500
gagcatatcg ttagcattcg agtacacgaa gctatcttta tcgtcgacca acggatcgta 1560
gataaagggc ccattcgaag atggggcttc ctgggtcatcc cttgaccgga gaacattggg 1620
ccaacatggt gtagcttgcg ttagagatgt ccgttcgtct cccgaatctt cctcgttatc 1680
acgcttccac cgctcgggtg caatacccat ggctgcttg tgccttgatg gcgtggatgc 1740
ctgttggtgc actgttcaaa agcaagtcag caagtgggat agaggtgaaa tggcagttcc 1800
ctacctgcac tgcttcctga gttcatgaaa gggccgaga gccgtggatc aatgtagtca 1860
ggaaggctgg taagacaggc cggcagcggc gagacctgat acccattgtc cctgtcgggt 1920
ggtccggctg tatctggcgc ggcatacttc ccctgtgact ttcttctgcg tgagtccttg 1980
gacgacatac gatccgatag gagtttcgca aggttggttg acttgtagca ctggtttag 2040
tcgtcgagca aagcctcggc ttgtggctcc tgggtggctgc gtacttgaag cttaaagtag 2100
tggaaggt gagccttaga agcgacgtga gttagcagat gcgatacatc gctgaacttg 2160
gggtgtttcg ggcagatgtt gcacagcaat gctgttgcat ccattgttg caggatcgcc 2220
tcgaggctct atgttaaacc acgctggcaa gtagtttggc agcagctggg gaaacaacag 2280
cttgaggctc gtggctttca cgagaggatg gtgaggcacg agacgaaaaa ccaatacaga 2340
aagactaaac ctggagatag aaacaccgac ttccccggga agtggaagt gatgaaattg 2400
agcaggccat caactggccg gggacttgct tgatgccatt gccaccatga caggcaggaa 2460
agaaaacaac gtcggagaag aggtctctgt acgctttgag caggcgcaac cgtccgcca 2520
gggtaaggca agtgcttgta ccggcctcgg ccgcaacgac cgcttctttc catgacacgg 2580
taacagagtg ctagggatta ccaaatacata agtcacaaag gtgatttccg cttccgctca 2640
tggtgactgc acagtcagag catgtcaatg ttttcttca tatctactcg gcattgcagt 2700
tgtgtgtct tgactatctc aagcctagt acaggctgta ctcgatttg gtcacgagtc 2760
aatggctacc ataacagttt aaaaggaagc aagatagcat gagtttataa attccgatag 2820
aggtgacaga caagcggctg aaatagccag ggtggtaggc ctcctctaga gacacctagg 2880
accggcgtga ggcgaaaggc cttgtctata gtttt 2915

<210> 1752

<211> 5235
 <212> DNA
 <213> Aspergillus nidulans

<400> 1752

```

gaacgtgagt acccgctactc tatacggggg tggtttattg acgttggggg gatccttcag 60
aagcccatct tgatecgggtc gcctcggcga gcatacctgt acagcgactt catgttcacg 120
taaagcgtct cgtcgtgcc ggtcacaagg tcggcgctgt taggcaattg gaaactgctg 180
cgctgaaagc agctggagat aaccgcaacg caccgtttgt tcgtaaattg acgaatgttt 240
acacgaaaag cacctatatt gatgatatcg agagccttga agggctctacg gctggggcat 300
ctggtgcatc ggccacggga tatattcttt gcataacgga gacgaacgct cggggctggg 360
ggaatgacga aaaagtacat gtgggtattg ttgccgtgca gccgactacc ggggatatcg 420
tttacgatga gttcgatgat ggcttcatgc ggagcgagat agaaacaaga ttgctccata 480
tcgcgccttg cgaaatgcta atagtcggtg agctatcgaa agcgacggag aagcttgtgc 540
agcatctttc cgggagcaag atgaatgtat tcggtgacaa ggtgcgggtg gagagagcac 600
ccaaagcgaa gactgcagct gccgaatcgc acagccatgt ttcgagtttc tacgctgaaa 660
aaatgaaatc tgcagacgct gcggatgatg aggttgcgag taacctgctc cagaaggtgc 720
ttggcttgcc ggaccaggtc acgatatgcc tctctgccat gatcaaakat atgactgagt 780
atggcctgga acacgtttta cagctgacaa aatatttcca gcatttttct tcacgctctc 840
atatgcttct caatggaaac accctgacaa gccttgagat ataccaaaac cagactgatt 900
attcgtccaa aggcagtttg ttttggaactc tagatcggac acagaccga tttgggcaaa 960
gaatgcttcg aaaatgggtt ggacgaccgt tgttggatag gcgtaactt gaggatcgag 1020
tcaatgctgt agaagagctt aaggacttcc gaaatgtcgt aatggtcgaa cgaatcaaag 1080
gtttgcttgg taaaatcaag cacgatctag agaaaggcct gatccggata tactatggaa 1140
aggtgagtaa cactgaccct cgtctgacgt ggctaacagt gaaagtgtc cggcccgaa 1200
cttttgacca tcttgcaaac aatgcagatg atagcacagg aatttgccga tatcgagtca 1260
ccagcagata ccgggttttc ctcacctgcc atcagccaag caatcatgtc tctgcctaca 1320
attttgaaag atgtcgtgtt tttcctgaac aaaataaaca tgcacgcggc tcgaaatgat 1380
gacaagtacg aattcttccg cgaagaagaa gagacggagg aaattagcga gcacaaactc 1440

```

ggaattgggg ccgttgagca tgaacttgag gagcatcgtc ctgtagccgg agaagcttta 1500
 ggaagaaaaa tggtcaccta tgtctcggtg caggcatcga ctatttggtg gaagtcgaga 1560
 acaattcgcc ggccatcaag cgagtgccgg catcatggat gaaaataagc ggcacaaaaa 1620
 aggtgtcaag atttcacctt cccggagttg tcaagatgat tcggcagaga gaccaaccac 1680
 aaaagcgctc gccgcagcct gcgataaggc gtttttggcc ctccaggccg agatagcgac 1740
 caattaccag gcgctacgtg actgcgttca atccctggca acgctagact gtctgggtgc 1800
 attggccacc ttagccagcc agccggggta cgtgaaacct gaatatacgg aagagacgtg 1860
 catccatgtc gagcaagggc gtcacccgat ggtggagcaa ctcttcttag acagctatgt 1920
 gcccaatgac atcaacctgg atagcagcaa gacgcgcgct cttcttgtga ctggccctaa 1980
 tatgggtggg aagtccagct acgtgcgcca ggtggcactt attgcaataa tggggcagat 2040
 tggctcatat gtcccagcac aggccgcaaa gcttggtatg ctggacgcgg tgttcacccg 2100
 gatgggcgca ttcgacaata tgcctgcagg cgagtctacc ttcattggtg agctttccga 2160
 gacggcagat atactgaagc aagcaacgcc ccgctcttta gtaatactag acgagctggg 2220
 ccgaggcacg tctacccatg atggagtcgc cattgcacag gccgttctcg actacatggt 2280
 gcggtctatc cgcagttctc cctcttcat cacacattac cagcatcttt ctgccatggt 2340
 gcattcgttt cctgatggcg agctgcgaaa tgtgcacatg cgattcagcg agtcggggac 2400
 tggcgcggac gaagacatta cttttcttta tgagattgga gaagggtgcg cgcatcgtag 2460
 ctatgggctt aatggtgcgc ggctggcaaa cttgcctgcg ccacttttgg agatggccaa 2520
 gcagaagagt gccgagctgg aggagaaaat tcgtcgccga agacttgctg gttttgttgc 2580
 tgcggttga gcggtagtgc agtcgaatca ggccgatgag agtgtaatcg agcggctggt 2640
 tagcagtatg gaggagctgt aactatatca agagtacata tttagcgaac aacccatctg 2700
 gcttggttgc gcgtgggcat cttatgttga tgactccggg gtaagtccat ggtacttgcc 2760
 ctaaaagcag gcacgtatag aacttggaat caggctcttt agatgtgtgg tgtgttcgcc 2820
 ttttctgcta ctggccatta gattggtaat ctgcagtcga actatgactg tgggatcaag 2880
 caaggttagg cgtcctgtcc ggggcgggca ggcttcacg gttgagtcga ggcaaagaaa 2940
 ggcgagcttc tatatggcac atctacaaa taagcataga cacatgcccc aggcggcagg 3000
 acatgctgga ggccttctta gacattagct tgcaacctca gcacggcaac tcccaccgcy 3060

caattacag tctcgctcac agacagatcg ttaagcatgt ttactagca aactcgagta 3120
 cccggcaatg tcctgaagtg aactagctgc tcgatcaaag aaaccgcaac agaaggcatt 3180
 tctccaggc tgaacgcggc acgggccctg gtagcattct gccccttggg ggattgatga 3240
 tgtcgaatca atgatatcga gatacttgag cgcaatccaa cagctgcagt ggacggggag 3300
 ggccaaatcg cgaatctcaa aatcttggga gcgatacctc cctctaaagc agcaggtttt 3360
 ataatccgcc ccttatagag ttgtgcacca gggaaacgtt gcatccatta tctgtgcagc 3420
 ttttttctta ccttccaagc actgtagctg agcgcagggt caatagctaa cccatttacg 3480
 gaaagagtta caacctacac ttactactt tttaggatac cgggctagcc gcaactagat 3540
 gttttgacat atatatagct gccaaatggc tctaacca ccaaacacgc agcaagtatc 3600
 cttaacttta tagtcaccgg ttggatgtat gagtcagaat ctttgtccag gttctgagga 3660
 agtacagtca tgatgctttc ttatcaccat tctcggttaa gagttactta cgaatggaga 3720
 ataactatac atggtacact gctgcctcat gaaatcaatg attagtatta caacaacagc 3780
 gaatgtttcc gtggcgcaat tgggttagcgc gttcgactgt tactatcatt cggtcacga 3840
 gaggttgtga gttcgatcct caccgggaac gtttctattt tgaacttttt tttgacactt 3900
 ataaataagt gctaagaagt atcctagggc tggtcgtcga gctatacagt cgtcatggct 3960
 cagcccttgc gagttgcaat ccccggtacc tgactgcagt ccccgacttc agggccttat 4020
 attttctgca gcctttggct gcgcgcaaaa aacggaataa atggagtcgg ctacctgcag 4080
 gtgggtacaa gatgcctaag gtatcaactt atggccccgc tgctaacttt gaggattca 4140
 ttcagtcttc tcggtgtcta ttgctgtctc ctactatcct cttcctcaaa gaatttaaca 4200
 cgcgattat cttttttaga gttgggatta tactatagac caatcgttta attgagcgca 4260
 actcagcccc ctctgttctc cgtttgccgc tgtatcctca atccaaaatc tccgataccc 4320
 cgcggtcaac tgaatcacga aacaggatgg atcttggtta caggtgagtc aattgcttta 4380
 tctacggctc ctgcgtgtgc cctgtactaa taaccatcag cctggaagga agactcctct 4440
 tcgcagtccc taagagcaag tcccccaagc caattcgtcc aactcgcgct tgactcgttc 4500
 gtttgggacg caaacctcca ggagaaattg aacgactaac aaactcgcga ggggtacaga 4560
 aggacgtctt caacaatcga cctcgcacct ctttccggc tcgcacatcc aattccgccg 4620
 tgaaaaccgc ctgcacatcg ccttgggtcaa gaacctgcct atcgccctca tcttctccc 4680

cgccgctgac atccccgacgt ttgttggaga gggccgcgtc gatctcggtta tcaccggccg 4740
 cgatcaggtc gccgagcacg atgccagct cggcctccca gagggcgaag tttctggtgt 4800
 gcaagaaatc cttgatctag ggtttggcgg gtgcaaactg cagggtccagg ttccggagaa 4860
 gggagacgtc cagaaagtcg agcagctgat tgggaaaaac gttgtgacaa gcttcactgc 4920
 gctgagcgag caattctttt cccgcttggga gaaggagcat ggccctgcgg agaagaagac 4980
 gaacatcaag tatgtggggg gcagtgtgga agctgcttgt gcgctcggcg ttgccgatgg 5040
 gattgtcgac cttgttggta tgtttctccc tccagttact tgttaataac tatgaagcta 5100
 aggaaggcag aatccggcga gacaatgcgc tgccgctggg ctaaaggcta tcgacaccgt 5160
 cgtcgagagc accgctgtgc tcgtcaagaa ccgtaacacc cagaaccgc ttgttgactt 5220
 gatcacttct cgtat 5235

<210> 1753
 <211> 3779
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1753

atatacatta ataaaacgtt aaagggcctt aaaatatata agcgggcgtg taccagttta 60
 aaaaaaacag agacggaaat taaataacaa aattcccaac acctaccac gaaagggaaat 120
 tctatacaaa agccggaaaa ctcttaagaa gtgcccaagc ctaaaaaatt gttactcaat 180
 tgattggcat gtctcaaata agatagagaa aaagcccccc aaaaacctgt agaacttctt 240
 ccaaaaagag gggtataaaa aaattcaggt atccaccctt tcgttcatac cagcaaatcc 300
 tgaaaaaata gggaatactt tttttttatt tcaggatcca gttcaaaca gtttcccttc 360
 cgaaaaaggt gtcaagcttt ctccctaaag ctatgaaatt caattggaca aaatgaacat 420
 agaaatcgta aaggtctgga atcccgcaa atcactttgg ggcagttggg ctgcctgaca 480
 tcatttgaaa aatgtagcaa aaaaccacgt tgaaaagtag tatggaataa taaagcagtt 540
 aatctgaatg ggtcgagaag ccagaagatc accctcttga ttgcccactg caccattct 600
 ggaataaggg gcaaaggtaa acactctcac tcgcacaaag gcaggctgat ggaagtaaaa 660
 tgtcatttga agaaaccatc ggctgacaga tcttaccagt ctccaaggaa gatcatgatt 720
 agcatacaag gtagctagct cttgtgcagt cgccccgcaa atatagccga caatccttcc 780

ccagttggac atctacatcc cgtatagaga gcgacactga aggtgacgtg gatcaaactg 840
 gcctgtcact actggcctgt taccacacgg accagtacca acgctgggtc ttcgtccgcc 900
 tttttctggc gtgacggcct cgcgaagagt catgctgcgc gcattggcaa tctcgatcag 960
 ggccccgacc ttgcagcggt gtgtggataa agtatcccta tagaactc gattcgctgg 1020
 cgttgacgcg caaaaggccg ttgtattga cagttcgacc tctcacgcca gaaccaact 1080
 aatcctcatg gtagcgcact tcggcaccac atcgctccc ttgatatgtc ggttcaagct 1140
 agattgggca gcgaaacca gagtaggcat ccagttcgat gagtgaagtg acaaacgcta 1200
 tctactggctc gggacagggg tgttggtgat cgacctcgcc tcatcgcgca gattcgagac 1260
 catgagttct ctttttgtg ccatccagtg tacactatgt actgacatcg cgaatataag 1320
 atcgttcacc caggggaacc atgtatcgcg gcagtcataa atctactgta gaaaagggtga 1380
 agccaccgac accactcggt gtcttgagg cgcctatcgg tgggtaagac agctgtcact 1440
 ggcggggggc gcacatacga caatcatatc aactcggaa tatcacctc tgcaatgacg 1500
 agtcgtgct ccatctggtt tgccccaagg ttaagtcaga gttggcccaa tgacgcgagc 1560
 tttctagact ttttgctttt tcttccctt tcatcggcc ttttgggctg tgacttccaa 1620
 cccagctat taatgattcg ccatatcaaa cctgcatct atcttagttc agagatgggt 1680
 caagccggaa atgatccttc aaacattctc agaaattcct tcgttgtctc cagacctagt 1740
 cctagttcac caaggttagc tgtgggttat ccaaccttag tgggagtttt ttagggagcc 1800
 acagttttca tgacaaaagg ggacaatcat atggctcgcc gtgagggaaa agaaggctgg 1860
 tcgtaccga atcgaaatat gtacccatgc agagagtcga ctagaactac ggccattcag 1920
 gggatctgta agtacagcgg acgaggctat cgacctcaag ctcgattatc agactcgatg 1980
 gttgaatcat tattgcggca gttgcaggaa agatagccct accagaggtc ttgagagcta 2040
 cgctgggggt gtacagcatg gcacagactt gctcggctgg atttttcaga caagatgcc 2100
 acggaagcgt gatgtggacg gggtcgcaga ggacaggaat cgagcgagag tgcaaagggt 2160
 cctgctaccg ctagtatccc agccacaacc gctgattccc gatttgtctc tcgggccctt 2220
 taatttcgct catgtttctt tattgagctg gatcgacctg atttccaatc tcggctgcaa 2280
 gataagccgg ccgggggtca actgtctgac gcctgcagcc gtgcaggag gcccgttcgt 2340
 catttcgct gcagcgagta gtagattctg gtattccgca gcatttgaat accgcgaccg 2400

tgccttcgat atcttttgca tgtaagtaag ccaactgtgac gatctttgaa taggatgaat 2460
 gatgtgtgaa cgtcaatcat gcagacgctt gaattggggc acagtgtctg ggcccgttgc 2520
 aggtgcttct tgttttgagc cgcttttagcc aacttctgtt ggggggttgac atagtcggtc 2580
 gggagtttac catgcgaccg gccatagaag acttgaacac tgatacaggg ctacaatagc 2640
 accaaggacg aaaggatgaa ggggaaggag gagaggctcg tctggctgcg gggaaacgtg 2700
 actacgcagt ggtccggacc tgggacggcc tcttctgtgt tacgggagac tcgacaagac 2760
 tgacctcgtc cacttccgtc ggtcccgtca gatccagggg cgtctgctgt atctagacac 2820
 tgccgcagtg agctctggtc tcatgatgtt ttgcagctgg agagctttcc aaatccttct 2880
 atctcacttt tcatcctggt aacccccgca tggcacctcg tttaccagca gtcttccggt 2940
 gtgccgatga agacaaggag aatccgctta cttctagtcc gacaggaatg gctacctagg 3000
 gtcggttata aatcagatat gttgagaata gtgaggcagg ttaggcaact gagtcagacg 3060
 tctgcttgat ctcgaggcat gagcaaattg atccaaacga ctaacaattt gccagatcta 3120
 aaatcctaaa atcctaccct atccgagtcg ttgaacggct tcgtgctgta agcaggcaga 3180
 gctatggaca tttcacacag ggcttaaacc tgccctatcc acgattgaga aagccgcca 3240
 ggctgcattg cgtcagaaat agcagcgctg cgtcgcagat gctgtaaaga gagactcgag 3300
 atcgcatttg ggtgataact ggtcaggccg attcccagtt gttgttcaga tccatccatg 3360
 cgcttccttg ctcgtaggcc taggttggtt aataaacggg gtgattgccg taaaagttga 3420
 cggcaaggga gcatgggggt cccgaatcgc tggtttaact atctgattca gagagcaata 3480
 ttgactcctt tttattaatg ctggttttcg caacgagccg aggacccgca tcacccgcac 3540
 aaaaccctcc aatgaaacg ctgcggtggc tgatgccaga aaggataaga actgcaggag 3600
 gtagcggatt ctagcaccac ttgattgagt agaaaaaagt aagtagagta caatacatgg 3660
 gttactcagt gggcctggct attcttgccg gccatcgaga aaactgcata gattgtttgc 3720
 tagctgtaac agtaaatttc acggttcagg gatgagaaca ctagcctcgc tcgacgcga 3779

<210> 1754
 <211> 1941
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1754

acaatgccac ccgcggtctt tctggggtttg ctggaggcca aaccataacc aattttattgc 60
 ctgcagattt gggacaagat ccacaagtaa tgtcatttgt gcagaccga ggcagtgttc 120
 ccgtattttg ggcagaggtc aacaacctaa aatacacccc caaactccaa gtgcgcggag 180
 tggaaaccgc cgtccaagcc gcacgcaagc acttcgccga gcagattaga ttgtatgggtg 240
 ataattacct tgttaacctc gtgaatcaga agggaagaga ggaacgtgtc aagaatgcct 300
 acgagcagct gattcgtatc ctgggtgtctt caccaaacga attgaccgag gcggatgatg 360
 aatcctcgga gaagctacat gtcctggagc cggaccatcc aaaaaggag atggatcgtc 420
 tccattacgt ctactttgac ttccataatg agacgaaggg tctcaggtgg catcgtgcgg 480
 agctgctaag ggatcgcctt atcaacggcc taaaccaggg cggttatttc cgcggcctag 540
 aaaacccggg tgctgctggg gggcagctcg aagcaagagc cctccaaagc agcgtcgtgc 600
 ggacgaactg catggactgt ttggatcgca cgaacgtcgt ccagagtatg ctcggtcgtc 660
 gggctctaag gagacagctc acggaagcgg gagtccttcg tcccggagaa gcggcaaacg 720
 atgatcaaga gttcgaggac ttattccgta acatttgggc ggataatgcc gatgtagtct 780
 ccaaggcata ttcaggcaca ggcgccttga agactgactt cactcgtact ggccaacgga 840
 cgagagccgg catggttcag gatctgagca actcaatcac tcgttatgtg cggaacaact 900
 tcctagatgg cccacgtcag gatggggttg atgttttctt gggggccttat cttcccccg 960
 aatcaactct gggaaatctc cggatctttg tcgatcgtcg gccgctcatc atccaatcta 1020
 ttccatacat tttcgccgcg ggccctctta tgatcattat tgccctattc acacgacgac 1080
 tccccgatgc agccgtctgg cccttgcgct tattcgtcgt tttctggctg ctaatttctg 1140
 gctggtgtgc tcgtttcatg cttgcacacg ggatgctcta tgtgagtcgg tgaactagat 1200
 atatactctt aagactgcta acaagatgct tcccaggtaa actggccgaa gctcaacacg 1260
 cccgccgagg gctcagaagg ctatcaagat gcgcttatca aggctcgtc tgatccagtc 1320
 atcgggcaac tccttccatc cagaagacac cagagaggat atagcaatgc tcgccttggg 1380
 ttctggaag aaggaaagac caggatcgag tagtcgtatt tcctgcactc atacctgcat 1440
 tcttcccttt gcccttctt tctttcatct agtcccgtgc tttggactcg tcatgctggg 1500
 catattttgc atccattccc tttctcttgg cttctattat tattcttcgg tgttttcccc 1560
 cctctttatt aattcgtctt ttagtttacc ggtttccgga gttatattat acgcgtagaa 1620

gtgtacaaca ccattctttt ttacatggca gcacttttaa tggaaggcta cgaatcgat 1680
aactgccaac atgcacgtac actacattaa attaatactg cgaagtgggt gtaactctca 1740
gtactcttaa gtcacgtgat atcatactcc gggactcttg ttctgcttag agttgatcga 1800
gtcaatgcag cccctcctta aagtccgggg tatttgtcac gtaagcgaga gcaccacctg 1860
tacactgatg aggggattta gcatcctttg ttgcttccca aagaccaag tgcgatcggt 1920
gtcgttgcat tctgtcgtaa t 1941

<210> 1755
<211> 3500
<212> DNA
<213> *Aspergillus nidulans*

<400> 1755

aaatgtataa ctatgggttc tgacagacgc ccggcattgc cttactcaca aaccagcat 60
attccactta acagatttcc gaagaagagt gcctgatgtt ccctcagtgc tggtagacga 120
aatagccacg agaaatgcgg atagccagga tactcatcgc actttaccgg gacttccaac 180
gcgactagag cgtccctcat caggcggacg tcgtccctca ggggtgcggc gtcgccaacg 240
gccatgtaga ctttattcag ttttccaaga cccggatgca gaagacatga aagccgggga 300
tcatccggtg gtgcgccata gcaatcgaag aacgaccgca tcgaggagcc ggtgttgatt 360
gtcaaccggt cattctcttc ataggatgta tactctctc ggtctcgatt gtctgcggac 420
acggagtcag gatgaacggt taccggcgcg agagcaacca cgccttggac tcggtctcct 480
aggccgtcac taaccaggtt aagtgccgta ctgaacgcca tgtttccacc ggccgaggca 540
ccgatgaaac agattgattg cacgggatac gtttccagga ccgatctcgc aacagttaga 600
caatcgtaa gcgccatcgg gaatcggaat tcgggggcta gacggtatcc cacgctgaag 660
attctcgtgc gggccagttt acagagagtg cggacgaagc cgtcctcctc gtcaatgctg 720
cccatgacc ctcgccggc gtggaagtag agggccagcg gtgggtcagc tacatccggc 780
ggcgtgtaga tgcgtgtggg gacgccgccg aggatcttgt cctctgcctg aacgctcagg 840
tctggaagag gaaagtcgta gcggctcatc agcttgccga ctatcgtctt ccatccctgc 900
atgagcctct cgtacggccc gtcaagagcc ggcgaaaagc caagctcttc tatgaactgg 960
tacagtcaat ttacgcata aggtgcttgg aggactgttc gtacctgctg ccatggctct 1020

gatagcttgg aatccattgt tgaagcgatc tggtgtctgc tacggacttt catcgcgagg 1080
ttcgatttgt cttatgttga atgtcggtea ccgagctaca atgttcttaa ttggatcttc 1140
atccgtctgg taaatgtcca ccataacgta tggcggttatt gtatctgata cgtctgcagc 1200
ccacttagct acccccctga gtccctcagta tgccgggtata tcacgtcggg atgcataccc 1260
taggcgacaa tgaacactga gactgatcta tccaccgaca gccctattca aactcaaacc 1320
agacgccgac cctaaccgta tctgtttatg gcaggagctc gcgcacgcaa tggtcggcaa 1380
ggtacctggc ctactggatc tgcaagctgg gcctcccctc gacttcacgg ctcgactggc 1440
gaaagggttt gatatgggtg tagtcgtgct gctagactat gtggagtctc tcgctaccat 1500
gtttacgcat ccgagccatg accagtaagt gttcagaatg aatggccttc cgtgtttatc 1560
atcgttgatg tacgacaaag ttcactaatt gtaccagaag gttgctagta cggaagtact 1620
gttggttcaa tattgaattc tagaaggcta gggtacagca tatcctctag aactgttcca 1680
ctccgaacta gtgcaggcat aaccgtggga atgtgtatat aatcagacat cgaaccagc 1740
ataccgccgc agttgcataa taggcctcac ctgattccca ccccatccgt cctcctaate 1800
atctttcagg tcaaaagtac cctccgactg ttctgccaaag gcacgtcctg tagagccact 1860
tagtattatc ccagccaagc caataagata gaagagaaaa taggagtaaa atgtaccatg 1920
tatctctggg cttgcaacac aataagtcgc ggcatacaac catgcgtcaa tagacgtaaa 1980
cgtgagtacc ttggccatat cgactccacg cgctgccatc gcatgcttga ttggggcaat 2040
gagcggagaa tcgaagaacc acggcgcaag cagattgcag cgaacgcca actgcttggg 2100
ctgagaacgc gtgctgcgaa acagcccgcg gacgccgaac ttgctggccg ggtacgtgga 2160
cgccttgggg ctgtccatat atgtgcgat ggaggcgag aagagaaggc atttgttgct 2220
gggcaactcg gggtcagttc ccgtgcctgg tatacgcagg taatacagcc ccagccagga 2280
agtgaagtaa cttcccacca gattcacctc gatattgcgg aactggagc tcggccgggg 2340
aggatcgacc tctaggctgg gaacaccgcg ggcaaggacg tgatctatct ggtttccggg 2400
ggcgatgacg ttccggcaaa gcaggcgact atatccaggg cgccgctggg tgagaagcga 2460
agggcgctct taaaggcggc cacttgactc tcccagctcg tgacatcgca gtagacatag 2520
tgaaaacagt gcgcgagtc aggctggact gggctcggtg gcggttgat gtcggcgatg 2580
gtgatataga ccccggcctc tgcccatttc cgcgtgtgg ccagccctag gcctgaagcg 2640

ccgccggtga tgaatgcgga tttgccgttg aggctagtca ggtcgcaagt gagatcgagg 2700
 ggctccatat tgagtccggg tgagtagcta tgggttatct tttgcgcgca ttgggttggg 2760
 ggtcattcat ttatagccct cggggtatag agttcggagt ctcagaatct gaacaaggctc 2820
 gtagtgctca ggaagaaaga tactaaaatc gccgtcttcg ctttcgtggg tttctaaata 2880
 gctccaaaca gccaaaatcc aacattattc ggcatgattc tgcctctgat attggtcttg 2940
 tatctgctct ctacggcggc ttaccgtcta tggctgcact ccgctgcgca actaccctgg 3000
 cccgtgctgg tgggctgttt ggcgagtcc atatctgaag ggcaccattc gagggacgat 3060
 tgtcagagat atccagcgat tgcataacca gtatgggtccc gttgtacgaa tcgcgccaga 3120
 tgaactttcc tacatcacgc cagaggcagc aaaaccaatc tacacgtcca gtcccgaatt 3180
 ccccaaagac ccaatgcac tccctccgtt tcataatggc gcccttgga ttctcgctgc 3240
 cgactacgcc caccatcggc gatatcgacg gcttcttgcc tctgccttct ctgaaaaggg 3300
 acttcgcgca cagcagggca tgattcagag ccatattgat cgactaatga ctcgtctcca 3360
 ggggaattgc tcgtcgggct cgctggacat gaccgtctgg ttcaactggg cgaccttcga 3420
 tatcatcggc gatctcgctt tcggggagcc gttcggctgt ctcgagagaa tggagactac 3480
 ccatggattg cccaattcag 3500

<210> 1756
 <211> 4151
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1756

tactcctgca caactaaaat ccgttaccac cctgcttgac gaactttcta cgaaacttgg 60
 cgcatgtcca tctgactact atgtcatcgc ctctcaaccc ggggtgcaca gcaccgattt 120
 cgctactggc aaatccgccc cccgcctcgg ggcgaggatg acaggcgagg acgaggcgat 180
 tcgatccact atgattgtca acgaagttgt aggcgtattg gaaacgaaac aagtccgaga 240
 tattctcgaa actcaatgtg ggcgccaaac aacggtcac gatacttcag gttttagacc 300
 ctaattgtct ctcatgaagt cttcgttgac atctggatag ccggatcata ttcgaccgac 360
 ttcggcaaag agcctcgcgt cgctcgttgc acgtttcctt cgccgcctct cggttccgag 420
 cgaacacagc agctttctga tcacggtatg tgccggcgaga tagatgtggg gcaggatgct 480

actgacagcc tatacctaga cgggctcctt tttgatattg tcggccgact tccgtcgaag 540
 aaatacacca tcctctacct tacgacgccc agggagtttg aagaatctga atcacctggt 600
 tacacgtcct cgaacgaccc ctaccaagaa gcgatgcaca tggacctgaa gcgggactac 660
 tctgctcact cccgcagtga cgatacgaag aacagctctc ttttcgatga gtaccagtac 720
 tttacgccag gttcgtgaat caccctaat ttgtttcaaa tgcaataaccg tcaacgtgcg 780
 ctaatctctg ataggtcttt ttatggccct tategccgt ttcttcttca ttgctattct 840
 ttatgtcggc ctcagtgcct tgatgagctt gcaggtttcc tacgcagcct ttgagaagga 900
 cacctcttcg acggctcaga agaagcaaca gtgattgcat ttatatatgg cagcgtgagg 960
 accagctttt ttgcgtattt gttcgttaac ttcgaacgta tatcataaat ctacttgcaa 1020
 tgggtgccttg cttgtaatat gactaagata gcatgatcta tacgagctga aatgaccaac 1080
 ttagaccaac actttgataa tctgcgaata gcaacgatcg gtataattcc acctcccaa 1140
 ccccatcgaa tcacgtgatg atcccgatc cagggaggca cctgatgggt ctgggagctt 1200
 gttgctgatc ttgcagccgc ctttttatcc tatggcgacc actgcttctg cgccttccat 1260
 ttgggtttca tccttttttg cttgactatc ttatcccgta cagttggcat atcactgcac 1320
 tccggagtac attgttgtcc ttgatttcag ctccctttgt tgaccagcca atccattatt 1380
 tgggtggaga tcgatcgatc cacgaccttg cttaccgccc cccatattta tcgatacgcc 1440
 tttgcggagc cagcattcct ctctttgtat cttgaaggct gtcaatacga aatatcacct 1500
 cttcccaccg actcgatacc tggcgcgacg ctgcgggact catgtattga ctgggatatt 1560
 gtggttgaa gaacgaatcc tctggggcac atcacctaca ctgatcgccc actgccccta 1620
 tagcaatttt atctacaatg ctctactct ccatgggccg gtcaacaaac cgacgatcat 1680
 atgtctact tttattattc ctgctcatcg ccatagtcgc acaagtatcg cagctcaag 1740
 acgattcaga atcatccgac aacaatgaca gtagcaacag caccgatagc tcgaacagca 1800
 ccacatcaag tacgacgaca gacaactacc ctgtcatgac ggtgccccca acagacgatg 1860
 cgccgtacat gcagaagtct accgccccag agggcacctt tttcatcgcc gttggcgccg 1920
 tcctaggcgc aatcggcctt tctatccttg catggcgggg catcgtggca tgggtctgtaa 1980
 accgttccgt ccgcccgcga gcaatcctgc actcctctga aaacaagggc ctgctcgggtg 2040
 gcagaaagaa gaagaagcgc tctggccgat ctcacacca caccactct cgagccaca 2100

gcatgcacca gaacgctggt agtctcgaaa agatcagcgg cagcggaac aaccgccaca 2160
 gctcatatag ggactcgcgt gccccctcga tcccaaccag agggagcggg ctctttttct 2220
 cacctacagc cgggatgcag aacgctggca atcggggctc aagttacctc cccgctggct 2280
 actattcggc tggcacggcc gccgccggtt ttgctcagaa tgtcggcctc tccgctgaga 2340
 gtctcccgcc tcaggccccga gggtatacgc gtacgggctc gggccctaca ccacctgcta 2400
 cgccgttatc tctccggct ccaggtatgc acgatgcccc acgatacagc aatagtaatc 2460
 ttccggcagtc gtatgccgcg gacgggtcga caagcagcgt gaacctcagc tccccgcatg 2520
 ttggacgcac gccgagtgc aacctggagg atctcttcga aagtcaccag aatccgcccc 2580
 attctcctaa ccggcctcat cactaaccgc cccgcctct cgcacgtgga tcaaactag 2640
 cccatctgct tctattcgcc ttgccataa gctcatcctc aattgattgg tttgaagggg 2700
 attactcatg tttgcacagt ggtgtcggat ggatatcttg tcattcagaa gtccctacaa 2760
 gtgccttcag ctttcattct ccgtttcata ttggttatct atgtcacata ttaggctttg 2820
 tacagacttt ctgatccgaa ttttaatttta ataaacataa cctgatgatt cctgtgcttc 2880
 atgtaggacc tcgtacaatg gttcgacaac ttgaattcct ctttcacata acgcagcgtt 2940
 gtacgcttat attcatataa gtaccgcca acgaagcgc agagaacgag taccatgaat 3000
 tcatttcata tgcgctcaac gattagacct attaaatcct cctgtccatt tctcgtgtca 3060
 caataataaa gaagagaaaag atccacaaaag aaagacagta ttatgtccga gagtaagctc 3120
 cgtcaacgcg cttgcccata tgatacggta aagaaaaagg tacagatcct cctggatcac 3180
 attggaaaat aatgaacacg ggaaatgttt gctcaacgaa atccccaatg tataacaatg 3240
 cgcaagaaat gaagaatgct gaagcgcgat ggaaaaaatg tttggcacga cggagcaaaa 3300
 tgtgaagaaa agggggacgg aggcattagt cccgattgca acatatccag ggagaatata 3360
 aggtcgtctc gtctatataa cttgattaaa taagaacaac tcagcttgac ggtgaatggc 3420
 cgttcaatct gtgtccagtt tgtcgttgta ctcccaagt aggacgtcac tcggtgctgg 3480
 cccacggctg tttcgaactg gacaaattct cattagtatt cattagcctc agccttgctg 3540
 aggaagactt actccactcg gcttctgctc gaagaaaaac ccacatccat cgacgagcga 3600
 tctcagaaaa catgagcaca aagagtccga actctgtctc actgagccag ccaaagcctg 3660
 gaaaaaat tgcacatccat gagaagcgg tagcgaagtc gacagcaatc gccgcatagt 3720

actgttgatc actaaaatgg cggtaacggc gcagtcata tggatattcg ttgtcgtttc 3780
 gcgattcgga aaataagggt aaatcccagt ctttggtgac gtcccagtag aaagagtacg 3840
 aagagttgat aaagggtgaag aagcagctgt tcaccccttag ttaccgaac ggcggatcat 3900
 agccggatca acttacagta gtctgttttag cgtcacttca ctgataccgt ggaatgagaa 3960
 agggctgtaa tttctcaatt tagcggtaag tagaatgacc ggaaaggcac tggcatattt 4020
 gagagcgttg gccaaatgct gtccaccagt gtttccattc tgaaagccca ttcggcgcac 4080
 gcggacgtac tcaatcaagc aatgtctgaa tcgaataatg cttggtatag caatgacgag 4140
 aggtatagtg a 4151

<210> 1757
 <211> 2810
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1757

tgacatgaga acgcggcggg gtggccgcga tattgtgctt cttctctatg aaggaaatat 60
 atgcaccaat tctttgacat gtgtactttg ctcacgagaa gaaccccagc agtcttccag 120
 gttttatgga cagtaatgtc gaccgtagag atgacagaac acagaaagcc gaccttccta 180
 tcccagcgtc cgaacaacga gctgcagatg ccctgaaagc tatgtcagtg aaagtcatga 240
 ccgtacagag cgcgttcccc ttcgcatcaa tccgcagctt cccttgatac ctttccatgc 300
 acagattggt cattcaacgc cattactcta attgcaccaa tatcacgcgc ctcaaactct 360
 ttgaaataga gacaaaagga ccagccgtgg tctacatacc cctccaatca aagcacagac 420
 tccatgcata cgccacccta taaacatcca cttctcccca ccaccttctt acaacctgca 480
 tactcactgg caacttgacc cccttctccg ccagggggccc ctctagtatc tccaacatac 540
 caaccggcat cgctaacacc ggatgtccag actgggttaa tggcgccgtg ttggccgtaa 600
 gcccgacctg tttcgcgac atctcaagcg gcgtcgcagt agccgggtca acatggctgt 660
 tcgcgatata aggcagggtt ggcaagacca gcacatcata ctgcgcagc ggcggcgtcat 720
 attcatcacg cagccggcgc gagagattca tagctttgct tagtattccg gggaactgag 780
 tctcggcgta tgcaccgtta aggtagatgt ttttcgtgga ggtgtaggcg cgggtcccatt 840
 tctcttgctg gaggggggtg aagagggtat tcaggtctgt gagagcgtgg ccgcgccgtc 900

caaaggcgcg gttcatgcgg ctgtggaagt tcccggattt ggagatgggc gtccagattg 960
 ccgcgcctct ggagtgaac ggaactgaga cgtcggacac tgtcgccccg agctcgggtga 1020
 aaagcgagat ggcttttgag accgttttgt gcacgcgcgg gtctatgcca ggcatgttca 1080
 tcccttctga gataacgccg attttgacgc cggagaggaa tttggggttg gggagggagg 1140
 ttagaatgct gtagtactca ggaatttggg acggcagagg cgccgcgaag gaccggtcgt 1200
 cgatattgtc gttgccggct gttgcttggg ggagcagcgc attatcgagg aggggtgcgcg 1260
 tcatggggcc cagatggtcg ttcgctgtat cacacaatat cccgtcagta aagcctcgtg 1320
 ctgcaattgc tccagagcca ggtgtaggac atactcggct cattcgatcc acatccggta 1380
 tacggcatca gtccaaatgt aggttttagc ccgtatagac cgcaccatcc agctggctac 1440
 aaactcatta gtcccatcct catggaatca gccctcatg cagttccgat tcccagcatt 1500
 gcgcaagacy gtaagacata cgacccggac actgccccct tgatcgggcc caatcgccaa 1560
 atccacatct ccattcgcaa cgagggagcc acaccactc gagctccac cgctgctata 1620
 cccgcgcgca aatgggttat gcaccgacc cgtggcagca gaactacttg tcgccgaatg 1680
 gcacaggttc tcgcagactg ctttgccctt gaccactgcg caagctacca agacgcgcgt 1740
 cacgactgtc gcgtcagtat cctagccggg aattgccatc aacttgtctg ccagtataatc 1800
 agactcgaag gtagacgtac gggatatatat ccgctaacca tatcggttcc catgagcatt 1860
 ggcactccct tgaccgcgat attgtccttc aggacgattg tcctgccagc gagtagaccc 1920
 gaggttgcgg aacgggtctg gtcttggatc tcacatctcc acgcccattg gtttagtggg 1980
 ttttctccg atgttgggaa gtggatgtta tgtcggggga agcgttcctc atccaccata 2040
 gggacatagt cttctcgag acattagctt ggtgcaaaca acccgtcaa cgggagatac 2100
 ggtggcgtga cagaccaggg agaccatca acgcctcagc actctcatga tacaccgcaa 2160
 gcaggcgaag gtagtcttcc ttctcgtgct ctgcaactgt gataccaga ctatccgcga 2220
 cgcatccag cgtctctaat gtgaccgggt tggaagagtt gatgttcagg gagaagacgg 2280
 acatcgcggc gacactacta caggtaactc caggttcggg aactcttatt tcctctccat 2340
 caagtacag agagccgttg ggccgagttg ggaaaatggg ctttttaacg attccgtacc 2400
 tgagacgtta tcaatagagt caagcgggga acggaactcc gacggacctc ctatcttgct 2460
 ccgacgcatt ggtggccgtt ggagatggta agagatatga taaggaagtg tgatatgccg 2520

ataggtgttg gagacggttg aggtaggata taagccaacc tttccttggt gttttttcgc 2580
aatttgcttc tcgttgcctc tgagctctac ctatccggtg cggaggacgt cctagcacag 2640
gccaatgcc ggttctcaga aatggccccg gcaagacggt tctcctccgc gcagacatgg 2700
acgcccttcc cgtcaaggag gagacgggtc tcccctactc cagcaccgcg acagcgaccg 2760
atcctgacgg ggtctcaagg ccgtcatgca cgcttgggac acgatatgca 2810

<210> 1758
<211> 3227
<212> DNA
<213> *Aspergillus nidulans*
<400> 1758

atggacccat catccagaaa ttgttcatgt acttagactc cttacgtatg cacaggggtgg 60
gctttaaacg caatgtgcgg cgccacatgc cgaacttctt actttccatg tcttcttcac 120
acgtgacgct gggtcgcacg acgtaagccg tggtcggtag tacggacatt ggttatcact 180
gccctagcgc atactccaaa cacaggtata tctctgccgc aagttgtaag tcaatcccaa 240
atctctgatg tattattccc ttagtggggc accaatagcc gctagcagta tctacctcca 300
cgtagaactt cttcgccagt aatggtacta gtagtaagta gtaataacag cagcaataca 360
ggtttatgtt agtactatca ttagggatat actatgatta gaatattatt ttccagcact 420
gcatcagatt agaagctact ttaaattttc cgacagtgcg gttcgtcaac atccggctcc 480
atatgcgata tttggatctt tactttacta ggtacttcga tagcactgtt tgaggattcg 540
cgttgagacc gggacgcccc ggaggaatta tgagtatggg tagagagtgg tagtaatcat 600
tctgttagca tgcttattac gtacaggcag gtcatggaaa gcgccaatgg caatcatgat 660
tccatatcct aaaagagtcc ggttaactca gttgggatga ctcgatacct acgttctagt 720
tttcgcgaag agataccccc tatcatgtgc attatttcga aattcgatag aggtaaaggc 780
attgcttgaa ggggagtcta tgggtacaata gtatgaggag cctagatgaa cagcattccg 840
gtcatacggt tgacagtgcg ggtggacggt tcacttggcc gtattctcca ccgtatgtga 900
gctttccaac caagtcccaa attcatcgag acgctgattc tcatcgatc cttctgcgtc 960
gagacccttc tcagcaagat cttccagtgc agcgcgcttc tcattcgact tgcggaaccg 1020
ctcgcttcca tctgagatgt atgcttcgac tgctgtgccg ccgaagaagc ggccgttcat 1080

gagctggcga tgtcagcaca cttattcaga cttccgacgg ctacagaggg gttcacgtgg 1140
gttatgtatg taccttgacg caagctctcg cggactctgg attcgagaac cggacgctga 1200
cgacgccccg ttcttccttg tcataaagga cgacatttgt gacctctccg agttttgagc 1260
attcttcacg gatatcttcc ttgatgtcaa ggatagctgc cgggtcctcc tgtgtattgt 1320
cagctcagag caatgggggt agcagccaga gaccagtgcc ggtgcagaga tgtacctcca 1380
attcttgaag cgtgaacata tgcttcaata ttacgatttt ctcaaacttg gaattcgtat 1440
ccaccagtgc agcgggctca tcgtcatccc aatctgcgag tttgctacgc atccgtgtgt 1500
tagtatctgt tcttcaccta aaacagctga gccatactta ttcagtttct gcgttctctt 1560
aatgattttt ttcttatccc gcatgctcgt cttcgtcggc gcctcttgct ggcttttgaa 1620
agagaaatct gcaggctgca cgcgcattggg cccctgcggc ccaggcacgc ccagtctaaa 1680
gtctgaatca tccagcatct gaatcgcgag attcaccgac tcgggtcggg aatagacgac 1740
tagagcttcc cccttgaatt ttccctcgtc atccgtgtac attttgatcc ggggccggcc 1800
gctgtcaatc tcctcggcga tgacgccga cctcgaaaag atgtctcgta tttcgtcgaa 1860
ctctgcgtcg agggggatag atgtaacgaa cacagcgggtg ttgaccggtt gcttctttgg 1920
tttttgagcg tcgccctgcc catgaacgaa cgatcagcga tgcatacacg gcgataggac 1980
aaagtagttt ggcgatgtgt gcaactgacc tcctcactgc cctgtttgcg ctttttcttg 2040
agcctctgtg ctccagcctg ctcgctttca tctactcctt caactttata ggcttcttgt 2100
tgttgccgca gcaagtcac gtcaatctgg aggacacca caggcgcaaa agaggcgcca 2160
accagcaatc agtttcacga accacccaaa tccagcagac ttagcggatc atgcagattc 2220
tgttcaagag gaaaagccaa gcgcgcacac accgtcggaa tccaccgctt caagatcgta 2280
tcgtagctat attcctgccc atcgtctgtt tctaagatga atttgttgc gagcttggag 2340
aaggagactc gcgggtcgt gtcaaagtcg gatgggtctt gcgggaagtt gctgattgca 2400
ggcggggaac ctgtcgccgt tgggtcgtgt ttgggtctt ggagcgccat tataggatca 2460
aactaggtgc taaaacgcag gttgaatgaa gaggttgtat gagtttaaag tccaagcctt 2520
tggcttgccg ggagcgttga tgacacagtt acgtaagcaa cgggaagctt ccagccttta 2580
aactcggtag taataataga gattctcttg aacagcctaa taattattat cagagttaca 2640
tagacaatta tacaagaac atcagttatc ttgctatcgt atacactaat aaatcgagaa 2700

cattatatat gcaaactctg ggtatataga agatgggaac cactccacta atgaaatggg 2760
cacttgccag ttcgcgagac tttcaagcct ttcatgccct cctgctgctg ctttctaccc 2820
tttgcttgaa gtatctgggc cgcacatcag gaatgtaa at cgttcggac agtacttgct 2880
accttcaatc cccgaagagg ggggccagtg ccccttgacc aaagcatcgg acccaacgat 2940
tcagacggcg gggtacgtat aaggtcgcca tccatgagga gaaatacttc gctaagattg 3000
tctcaggaag gttcatgcca taatgagccc gtatcaagta ccaaacaaag gccccacag 3060
gaataaaatt tctttttccg ggggttaatt aatatagtgg aaattatcta acccattttt 3120
aaacaattta acacttatcc cctattttct tcttcttatt atcctactca ctcattttatc 3180
ttaatctctt taattttatt ctatcctttt tctttatcaa tttactt 3227

<210> 1759
<211> 3839
<212> DNA
<213> *Aspergillus nidulans*
<400> 1759

ccgactgggc cgacgacgaa gagttcgacg acccctctgc cctccccccc caacaaatca 60
caaccaacaa agacggcacc aagaccgtag tttcataccg cttcaatgac gaaggcaaga 120
aagtaaaagt caccgcgcgc atcaaaacaa ccgtcgtccg cgaacacgct aatccgcaag 180
tcgcgagagc cagaacatgg gccaaagtctg gcttggaata aggtcacgct gctggctcct 240
cgtttgacac tacctccgct ggtgaaaaca ttgtcttccg cccgtctgtc aactggaagg 300
cgcaagctgc ggaggcggag aagaacggcg gcgagaaagg aagcatcaag gaccagctga 360
aggataagaa ggtcaagtgc cggatttggt caggcgagca ctttaccgcg cgctgtccat 420
tcaaggatac catggcgccc gtggatgaac ccggtgctgg tgggtgctgaa ggtggtgctg 480
cggctggcga ggatgcggct ggaggtctgg gtgctggcgg tggtagttat gtgccgcctc 540
atctacggaa gggcgctgca ggtggtggcg aacggatggc cgggaagtat gagaaggatg 600
atctggcgac tctcagagtt acaaacgtat gtctcgtcgt tttcagtgcc tcgtttgtgg 660
ttttttgcat cggggattcc ttcttggtcc tgatggctaa tggatgaacgc ctaggtttcc 720
gaacttgagg aggaacaaga actcagggat ctattcgagc ggttcggctg tgttaccaga 780
gttttcttgg ccaggacag agaaaccag agagccaagg gctttgcctt catcagcttt 840

gchgaccgga gcgacgccgc acgtgcctgc gacaagatgg atggatgtac gtttctttcc 900
ctcacctat atctcccttc ttactcgcaa atcccttata atccctatca caataagctc 960
cgatgctgac ttctccctgc tgcagtcggt taccgccacc tcattcttcg cgtcgaattc 1020
gcaaagaggg ccacttagat tttttctcca ttttcttcgt cgtatcatat catattatct 1080
ttggggatta tttctgcttc gatcgggtatt tacgacgctg ttctgcaggt ctacactggc 1140
ctgttttaggc agattggatg actccatata tactcttgcc tcacgagttc ctttttctca 1200
ataaaagtgt catgatccgt gaataacgaa gtaataagat gaagacttta tttttaatgc 1260
tctatggcga caaataagaa attgcagagg ttatagagac acaacatcta ctttgttgaa 1320
agcacatagc tccctggtaa cgttcggtag tcggcaccag ctttagcaca ttgtctccca 1380
ggtttcattc aaggctatcc cgtgtctccc tgtgtcttag ccgttgaaag ggagaacggc 1440
cgtactggat gtttcaggac gcagtctctt ggtgacactc gtgagatctc ccgtacaact 1500
cacctgtaat cagcctgctg tagtctgagg gaaagccgtg gaagagagtc aggaaccaag 1560
agtcagaagg gtgagtgact tttgcttgct tcaagatagc caaacggata gcgcagtgac 1620
tggggcagag tggatcatctg catgcatcgg catctagcaa gttagggcca agtgaaagtc 1680
atacctagtg ccgaatgaat agtatccggt tctcagtatc tttgcaaact aggaagataa 1740
gtatagctcc cagcatatga gacatgtgct agtcctgatg caaattactc gcagatgcat 1800
atgtacaatg gccacctgag cagcgggatac tcgggacttg gaagagcatt tctgtaggca 1860
gacagaagta agcctaccgg tatttttggt cttctcaaca gccagtctag ctctctccgt 1920
ttacatacca ctttcaggac tcaaaaatag tccgataagc gccccacccc acttactcat 1980
ttcctccagg actggcaact cggtgtcca gacgatatgc aagtcttgat ctccggctag 2040
gctcgacctc aaaacgggtcc tgtcaactga caagcgaagt agagtctgat ccatgtagca 2100
ttgatgtttt gtgattgact gtaacacgaa agcagtcgtc ctgcgccgtaa atgggcatca 2160
cattggcccc cggagctttg ccttcttatt ccccgagctt ctgacaagtg gacgaccagt 2220
aaagagaatc aactgccggt gaaggggcct cggggcgctg tcggcagcta gaagctccgg 2280
ttacattgca tagaatccac agtcagtctc tggacaacaa ctggcgaaga tgaggatctg 2340
agaagcgcca ttatgtcatg gaggacaatt atcttcgtct ggaatctgaa acgggaagga 2400
ggaaaggcgg cattttcgca ggtggcgggt tgactcgccg tgtttctgtt ctgtgtgact 2460

tcacctaact cccaactggc gaggtctggg aaaacaaagt ttgacttctc ttgacaagcc 2520
 aaagcgtcga ccgaggcaga ttaccgggtg cctgtagctg tgctcagtgg agaaatagtc 2580
 aacggtagtc ggcgggtgcg atcgtggatt tgtgacagta gagttggggg cctgtctacc 2640
 cttcatttct gagaataaac ccaaggacct tgtgccaatg aattgattat cgagcttctg 2700
 ccttctatgg caccacgtcg atcagtctcc cgcagtatcc agatgcatgc caccattccc 2760
 ttgaagcaag gtgtcgactt gcattcgggg cccatgatat tagtccactt gctcgaaatc 2820
 gatttcattg acgtggtcgg cagttaggac ttctgccc ctcaagggat atcttgggtc 2880
 gtacggaatt gatggcactt ggtcatcggc cggccctcgg cttattgatc tagcagagag 2940
 gccagagcga ttaccagcag taattggccg cagctgaagt agtacagcta acttgaacag 3000
 ggagtaaaat cgtgggtggc gtcaggcata gccacaagaa attgcagaat cctggccgct 3060
 catgcgggcg ccaaggtaat tgcgcagaac aactgctgcg cacatggacc gattatgcgc 3120
 ctaagctagg acgcgacgca gacagtttgg aatacgaag aggcttgggg gtgaatgtca 3180
 gccatggctg attattctcg taccatgact ctgagataca tcctgattaa tctccgagtt 3240
 taacttgatg tagagtcggg tgtaccagat ccaactgccta ggcagacccg tttgcacgtt 3300
 agcatatggc atgtaacgat ccaaacctgg ggtctccacc aagtatgttt gtgttctggg 3360
 cggcgtgaac gttcctagga atacgcaag tccaatcact caagcgtctc gtcttggggc 3420
 cttcagtagc cataagtga agtgggcgta aatctgtcta gagtctatgt ttctgtgacg 3480
 gataattcgc agtagacctc agtctgaact atacggacca agattcgagg gccgcaatcc 3540
 gcaactgggt agccgggtcc cagagttgga acctttccag aagatcgaaa cgcgtggaga 3600
 tcaagggatc ctggaaccaa cggccgaatg ttctggacac aaagagcacg agctcactga 3660
 ccaacgtcga tccgaaaaaa gccatctgac atacaccttg gtgtttcaga cgatcataac 3720
 ggcgagctgc atctcggtat gctatcgacc ttcaatgttt tgcacgtgc caacacataa 3780
 cgatcgtgct atacagcgga gaggatcggg aagcgcacta gaagtatgag ctgagattg 3839

<210> 1760
 <211> 3904
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1760

atgccggatg tgtcgtcgcc atgatcgcca aagatgggggt aatcaggaag acgaggtgga 60
aacttagtcg atggaggcag gcgctgcaga cgtgagggtta tgactggaat agatgaacaa 120
ttgaggctac tccaaaatat tctgtatttg gttggaaggt gagttactac agctgcggca 180
gtttggagtg acagagaccg agcggcgggt cctgttggtc gtttgtccct cggctcggcc 240
tcgagagtca cctcactctg gggttggctg gacgtagctc gtcacgggat tctccagatt 300
tcgtgcttgg cgtcaaacia acaaccaaca cacttcatca aacatctcag tcaaaggagc 360
accctctttt ctaatgagga cgacagcttg ggttcggcca gcaaagcagc tgattcctga 420
aattgcaata tagcagcaat aatcactaat caatcatcgt ccggaagcga aacatattct 480
atgacgcact cttttcattc catactagat ctttctaata tactattcca atattcttct 540
attcaaattc tttttacctg ggggtatactt gctgatacca ttatcccact aatctttcgg 600
actagcacca ggaataaaga aaagagagag agagagagag atggcaagag aactattaaa 660
aacaatgga catggacgtc aatgcgccag acattcccat tccacctagc acggatgtta 720
gaaaatctcg catctctgct tttgtcgcta tcgatttcga gttctccggc attgcattag 780
ctgcacacgg aacaactgga gctggggccac cacatagctt gcagcagaga taccaggaat 840
tgaaggaatt tgctgactag taccaaatac tccaagtcgg cttaaccttt tgtcaggagg 900
atgttgaggc aggtcagatt atctgcattc tttttgagct ctccgaaata tgtgatattg 960
actgtctgta gggaagtata ctttgaaacc atataacctc tacctcagtg caatcattga 1020
tcgtaggctg tacgccgaga gaaattgttt attccagagc agcggtatgt acgctcagcg 1080
ttattttcgc aggactgagt cttccatgca gcggtcgagt tcttctgga gcacaaattt 1140
gatatgggcg ctttgtacag aacgggcgtg acgtacgtat cgagagaaga ggaagcacgg 1200
gctatctcaa aggccaaga aagatgtata atggcaccgg tgctgacttc aatcaatgga 1260
cgttgacgag accgactacg aatctctagc acttttgaaa ttcgtccgga agctcataga 1320
cgaatggatc gcgctcgggtg atataaaggt tcaattttga ttgctgtcct acctaataca 1380
ttatagaagc gcgataaata cctcaaaatc ccgccacctt ctcgcaaaaa ggaaaccag 1440
aactcgaca gcgtgccttc gatattaaac aggttccaaa agagactggg ccaccaagtt 1500
gtcgaagtag agtatccaga ctttgtcacc atcggacggc ctggattcgt acagattatt 1560
gactatgacg agaaacgcga agttgctgtc cgggacaaaa ggggccagtg gtgtcaaaaa 1620

cgagttcggg agcagacggg ttccagatgg atcgccgaag ccctggcttg gggatgatctt 1680
 acgcatctca gcaccaatta cttccctggc gtcagaggca aactgcatc aacggagcag 1740
 ggcaaatac tccaggaatt tgttgagaac ttcaaggcac gcctcaaagc tcatcgacct 1800
 attcttggtg gtcacaacct cttcaccgat ctgggttact tttccgctg ctttttttgg 1860
 aaccctaccg aaccatgtag aggactttca gtccatgggt cacaagcatt ttcctattgc 1920
 catcgatata aagtaccttg ctacacatga atgcgggtcc accaatccca tatcttcttt 1980
 tacaggaaat caataacagt ctgctgggaa tatctaaacc aatgagtgga tgacgcaata 2040
 tataactggc gacagacaga cctcttttagg catacatcct catttcgcca ggtacgaaat 2100
 agagaaaatc gatcatgaag caggatacga cagtctactc actgcgagcaga tattcgtaaa 2160
 actctcagcc cagcttggga gcggaagtca aattaggccc gcaggatcac cctcaaatac 2220
 atctttgacg gcggcacacg gcctcaacaa ccgattttcc catttgacag ttgaagagac 2280
 gagcaacgga ctggccagcc cgctcgtggt tgctgaaagc gaaaggagcg atggggtctt 2340
 gggccagcaa agccatgcag aggagatacg actggctgag aaaggacttt tgatctccag 2400
 accgaatctt cagttctgga gagtgtatgg caacaattta cgcaactttg gaaccaaaga 2460
 gaaggtttgc cgtgtaaaga acgctgcata gcccttaaat aatgcactac ttggactcaa 2520
 tctcaaacca tctacaataa cccttagtag aatctccaaa atatgaagcg agcaattggg 2580
 atgtgcgcag catctatcta acagtacacc ttggattcaa gaaggtagcg ctagcgaaat 2640
 cagctgcaag cactctctct gagcaccgca atgaatgatc gactggttgt agaagaaact 2700
 gaacgcagtg acgataagga tgggtgctgtg ataaagaaga aagagaaaat tgagtgcagc 2760
 gggaaaattg ggtagaagta ggctgaagtg gtcacgtggg tacctagctg tttttgggct 2820
 agccaggccc gacggggacg ggaaaacagt gaccgacgac ttttctcgag acttgctgaa 2880
 gggaccgtag gagcctgtta cgaccacact aacagccact tggagatgtc ttcaggatcc 2940
 aatggtgcca ggcgcatagc ctcaatactg cgtaagtaac attaggcttt attcccattg 3000
 agtctcttct gatgtcgagt tgcagggcct tcgattgccg aacagcgagt gtgcagcagc 3060
 tgtcaagaga cacttgctcg ccgcaactat gcctccgagg ctacacccat tccccctaaa 3120
 cctcttctgt cgacctatc tacgtttcct gttgtgagcc cgacttatac tatcaatgct 3180
 ggctgtctcc tgtcccgctc gccccaaatc acacgcgacc tcaccgattt tgagaaagcg 3240

tactacttct accagaagcg tctgaacgag cgactggcgc tcccattcac gaaatacttc 3300
tactttaagc gcggaacgcc ccttgacgag gattggaagc gtaagggtccg agagcgccag 3360
accgctgcgc gcgatattgg caagtacaat gcgtacggta aagaggcgtg gaacgatgaa 3420
ctgcttctgg gcgccaagga gtcggaaccg gagcatattg ttgaggcgtt gatttcggat 3480
gccgagagca ctgccaacaa cacgtctcaa gatacaagca agcaagagca aatcccaagg 3540
ccgcatcccc gggtaacgga ggcggataag aagggtgaca ccaagagtct ggatcgggct 3600
cttcagagga ccctgtactt gcttggtcaa cacanggaag gatactggaa gcttcctagc 3660
tctcctgtcg cttctgggtga aacccttcga tcggtatgct gtgtacccca cttgctgtgt 3720
cgtgcgcttg ctaatatgtt tttgataggc cgctgaacgt acccttgaca atctgctgtg 3780
tgaacatgac acctttatgt cgatcccacc tgcgggcacg gtgtacactt cgaaaccag 3840
atgacagaca ccgcgccacc tagcgggaga gcattctatg aagaccatat gccggcagcg 3900
actt 3904

<210> 1761
<211> 3356
<212> DNA
<213> Aspergillus nidulans
<400> 1761

gaaaactcca taagattcgt gctggcgaac tgaacaatga gagcccagaa taaattttaa 60
atacgattcc agcctgatat tgaataactg aactttgtac gctaccacg ggggtgggag 120
cactgtaata gactgagaat tagacaaggc tcttaagtaa agcaggaagc tacggcgatt 180
tactagactg agatcaaatt tttgttagtt ttgtcaagct gtggaaatac tttgcagagg 240
atatgcctta agttttgtat ttgtgctgat gaggaataat acagccaatt catgggcaat 300
atgatgacgc tcttagcaag cgtcgaatgg ccctgcgaga agtaggcaag aataatctta 360
ttctttctca ctgattttca tctttttcga gtcccccttc tttcttcggt ttcattccatt 420
catttttagac ggcattgagct gttctatctt gcccctctat gctacgccag ctgaatcgtc 480
ccaacagcac aatgaagggt ttcaggctcg acaatggggg ctcgaccatg ggcaggccgg 540
gtagaacagc accattgcca gagcagttat tccgagtttg aagaatggta accgacgagt 600
tgagcgctac aattgaattt attggaacct caaacacaag catcatgctc aaataattaa 660

ggaaggaggg tatagcggcc agagctcaac catcctccgt tgttcacaca gtaacagcgc 720
cttgtgcggy actgatcttc gaaggctctg tttgaaatgt atgcccactt tgtgagacaa 780
agacatcgat atccccgtet gtaagcctat cctcatccac ggctccccctc ccgataaacac 840
cccttttccct atccctcctc tccaggtatg caatcaaccc tataaatggc agcgtcaagg 900
ccccagtaac caagctagcg aaataacccc ttcgatagtc cgggtgcatct gtgacagggt 960
agaaaatcaa cggccaccaa gtgacaaatg caaaatcaaa cgagttcatg aacccccgtcg 1020
cgatggcgcy cagctgcacg tcatggccgg tcacgtcggc caaccagcca taccatactg 1080
cctgcgggcg gtacgtggtg ccgagcaagt agaaggcgaa gaagtagcct gctgttgggg 1140
gatctgagaa gagaatggcg gagcctatga caaaggttag gccaatggca atagagactt 1200
cccatcgca acgcagtttg tcagagacga cagcgtagag gacagttcct actatggctg 1260
tggtcatagat agcggttggg tagttgttct gttgcacggt tgtgtatccg cgcgaggcca 1320
tccacagcgg catgacgttg ttagaaagac tctggacgca gagcgagtat actagaatth 1380
gttagagtgg agcgccctcaa atagtcaagg agactaacgc atgaagataa gcggcaagag 1440
atagaactgc cagctccaaa gcacccgttt gaagaccgtc aggtcccatg actgcttgct 1500
gggagagccg agtcgagcgg ccgcatgctc cttctcctcc gcgttcaaat accacgccgt 1560
tcgatggaca ggcagatcgg ggatgaagaa ccagcctgca ttgtctgaat aagcctaggt 1620
tttatthttt thttctttac ttatthtgag ggaaggggta ccgaataacg cgacaggcag 1680
agtcatgacg gagacaatga tgaagatcca thtccatgca ggaaggccac cttgcctgc 1740
caggctthtc aacagtcctg cttgaatcca gccaccagcc atagacccga gatggccaaa 1800
gacgcagaag atggcgthtc tgggtccccag thcagatcgc ttgtaccatg aaccaaggat 1860
gaacagggct ccgacactat cggggtcagc cacagcccga gccacaaga ccagacctac 1920
tatgcaatcg ctgaaaacgc cccttcgata gcattcaaca gaatgacctg ccaggcgtgg 1980
gtcgtccgaa acgtgaccat tgtaaggaca ctccaagtaa cgthtgccgg aacgaagaca 2040
tgthtcggcc gcaccagagt gagaagactg gtccccggta tctggcaaac agcatagggt 2100
accaggtagg cggthtctcat gtaattgtag thcttacctt gaaagttgag ggcctctthc 2160
attccgctga tatatgctga ggagtagctg gctctggtga cgccgaaaag aaaccagatc 2220
aaggagaaat acggcagtaa tgtagtgtcc agthtcgcca gcaaggcgcy atctthtcca 2280

tcggagcccc agagccaaat ggctaccttt gtgcgaatgg acgccattgt ctgttgagac 2340
 tcgatagaag tcaaggcggg ggtatctcag ttggagacgg actgaaaatc gaatgtgaaa 2400
 atggcgaaat cgggggtcag cctgtgtgac cggatttgtt gatcgagacc cgataagcgt 2460
 catgccgttt agatatcctg cgtccttgac agagctacat agtctagaat ttcaaataat 2520
 ggaggaccct ttacgcgcaa aaagtagggt cttgggtgtct gtatagggat aaattccttt 2580
 catggatgca accttatggc aagtcaatca acgtgctctc tagacggcaa caaaatttag 2640
 aaagagtata tgttactaag aatataagaa agggaagcag cggccaccgg ttgagcacag 2700
 aggcagatat gtacttggat tttcggctac tcttttgtct ttggctcctt ttgcttcttt 2760
 tgcacagaca aaaacgtctc ctctcccttc cgctgtacct tgatctcata ctcgatcatc 2820
 ataaagtcct tcagccgcag ctctgtcgtc ctcccagtc cttccagctc atccagtcgc 2880
 tcaagcgtcg ccgccagatg ctctcaaat tcagggtcac tgcagaccga acgaaaggcg 2940
 ttctgcattg gcaccgaatc cgtctttaca atggcgctcg cgtcgattgc aatgatgttc 3000
 atctcatcca gcttcttgat cagatcgggt cgggtcatga gctcttgccg cttgtgcagg 3060
 gcgatccccg gtagtccaga gacgtagtgc gttcgggtct tggccttttc cagctcgacg 3120
 agcgtcttgc cgaggagcat tgcgcgggac tactccttgt tagccgggtt gattcttgat 3180
 agcgtggggg aaacttaccg agagatcctg ctggctctca gccttgtcat ccatctcggc 3240
 gcccåaaatc cagcatttac acaacagcca gcgcttctct ttctcåaaa tggcgtgaca 3300
 ggtcttgagc atgtcctggg accgggcgac ctgatccctt tagtaggggt aattcg 3356

<210> 1762
 <211> 1206
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1762

gacctcccca ggtcctgcaa ttagcctgct gtgctgttct atccgcatgg cccaattcaa 60
 cgcccactat tatggccttc tatttcctga ctttcgccac ggcggcattg gggatatctg 120
 tgcaactgtc tgacgtacgg caagaaccta ctcgactga cctcttttga gagattccct 180
 cctcgcatgg ctgggagaga tactcaaaaa ggaaccagaa gcgcgctcgc tccttgctcg 240
 tgcctcgggt actcttgttt gtcggtttcc cacagtaacc ataaggcata cttttcttga 300

cgggggaaat tgtagatgta ggacacgcaa ccatacctct ccgtgcatgg cggacagccg 360
 atagccccac gtaccatta ggggtccccc ttgctacggc gtttgccgca ggaagcattg 420
 cggcgattct ggaaatatat ctctatttga ggaggtaggt tcccgtgttc gtattctgtt 480
 tggttatgct gatagctggg gttattcttt gcagccaatc gtacatctta gaacgactag 540
 cgctcaaca ctatcggatg ctggggacga tgggcagggt cagaatgctg atactagcat 600
 gagtggcaag ggagctgcta gtgggtgtgt ggaggtgcgg tcgtagtgtg tctgggaaat 660
 atgagctgga gaagggtgtt ctactgtaac ttcagctata tgccggtaca atcacgatat 720
 gcacagagtt tgaggccaat tctcgataaa ctgactgac taacatactt attaaggatg 780
 atatcaagag tataacaaat tgggaaccac agtacagaag tctactgagc taaggatgga 840
 taaacccaaa gcttggtatg gttatcccat taggaacctt ggaaactgca caattgctgg 900
 cgggccttcc gggccgaacc atgaagtaaa agagttgttc tcaccttcaa tgacatcaca 960
 gcctaattca gcaccatcat tacaacaaat ccgcagcaca atggcattgt tagacctccc 1020
 aaaacctgct ggctcaacag tcggcgtctc ggttatagtc ggcggtcata ttaccgttca 1080
 aacgaggttc atggtcaaag agcaagtttc agggcacagc tcaatatgcg cgcccagcta 1140
 cagctttcca attgaaaaca aaggcaaagg gtaaaaagat cctagtattc tatagtgtca 1200
 cctaaa 1206

<210> 1763
 <211> 3066
 <212> DNA
 <213> Aspergillus nidulans

 <223> unsure at all n locations
 <400> 1763

gcgaaaatga cctatcagag ccaaatagta tccgaggctc ggattcagac tcgctcctcc 60
 acatcccgga gcagccaaca gaccgttttc aaccgccata tcagccagta acactatcaa 120
 tatggctgcc acaacaaacg accagcggcg taaggttggg ttttttttca aagctcactc 180
 tgacccccgc taattattta taatgggtta tcagcccagc agcttaagat ccattcttgc 240
 gggctctacn agtggcgcaa ttgagattgg tagaactcag gatactattc aacttcttcg 300
 aattggagtg ctaacatgat gtagcaatca cctatccggc tgaatgtatg ctttgattct 360

ctcaagctct tccccagacc taggatctaa gtgatttgta gttgcgaaga ctcgatcgca 420
 gctcaatcgc aggctacccg actcgaagaa gctcccatgg cgccttttg gaaaacaatg 480
 gtacgccggt tgtacaacat tgattattgg aaattcttta aaagctggaa ttcgtgagtc 540
 cctggtgtta tgcgtataga ctggttggtt ttggggcgct gatacattgt cgctatactc 600
 aggattcgtc gcgttcgata catttaagtc gatgctgcag gatcaggatg gaaagatata 660
 aggcccgaga actgtcatag ctggcttttg ggctggattc accgaatctc tgctggctgt 720
 aactcccttc gaaagcataa agacacaatt gtcagtctta ccccatatcc cagttgttct 780
 gtctatgcgc ctggctttca acaatcacga gacgggtagt agctaatacc gtactctttc 840
 cacctcctac aggattgatg accgtaaata cgccaacca cgtatgcgcg gatTTTTTcca 900
 cggtagcgggt gtgatcttcc gagagcgagg tattcatggc tttttccagg gattcgttcc 960
 gactacggct agacaggccg cgaattcagc gacgcggttt tcgagctaca ccatgctgaa 1020
 gcagatggca gagggttatg ttgcacccgg tgaaaagcta gggactgcaa gcacgtttgc 1080
 ccttgggggc atggcaggct taattactgt gtatgtcaaa tatagttcac aacatcatct 1140
 caaaagacat actgacaaca ttatctagat acgtgacgca accccttgac accgtgaaga 1200
 ctaggtttga ccaaccagct cttagatttg ggcgagatgc tagctaacag cgaaatagga 1260
 tgcaatcgct tgaggcaagc aagaactaca aaaacagctt cgtctgtgcc gcgcgaattt 1320
 tcaaggacga aggtatcctg accttttggc cgggggctgt tccgagactc gcaaggttga 1380
 ttatgagcgg cggcatagta ttcacaatgt tcgttcacgc cgaccaatcc tattttgtga 1440
 cttagtgact aacgcgtac tcataggtac gagaagtcta tggacatcct cgactccata 1500
 gatccggaag gaaggtatat ctgaaagcat agcgcggcat agagaaccag atttagagca 1560
 acgacgacga tccgagtaaa actgttgtgc cgatgcagca cagcggcgtg tttctcgggt 1620
 atgcaacatg caatagagga agttgatgta cgttcaaaat taaaatgttt gactcccaaa 1680
 acgtttacac tattgttggt tcttaattat ctgagagggt agtgccagta tttcgcggtc 1740
 gatgagccag gatcgcaagc tatccatgac cttgactagg gtctcacctc cctccaacac 1800
 gttgtccagg ttatggacag tgaaaccact tcgatgatct gtgcagcggc tttggccgta 1860
 attataagtg cgaaccttgt cacctcggcc cattcgccct ataccgcca ttgctcctct 1920
 tcgaagctcg actaattctt gtcccgcgcc tctgtcgtg cttccgccag ctttggccgc 1980

agtatctgcc acgctttttt gcgatttgca tgetgggacc gcgaatcctg catcgatacc 2040
 acaataacctg tgggcatgtg agtcagacga atggctgatt cagtcttggt tacatgttgg 2100
 ccacccgcgc cacttgctcg cattttttca gtacgaactt cttgcggatc aatgtaatag 2160
 tcgctatttg ggtcgtcaaa gttgaacgcg ccgtcaccgc cgctgtgtc cgggaagctg 2220
 ggtaagacca tcacactgac cgcactggta tgggtgcggc ctttggtctc tgttgctcggg 2280
 actctctgga ctcggtgtac acccgattcg gtccgtaaga gatcgtacgc cccctctgct 2340
 tctacttcca aaacagcctc cgttagagca tctgctcggt tgtcccacgt tcaagcttca 2400
 tgagagtaga ccgtaaccct tgatgagcac aaaatgcgac atacatctgc agtaattcaa 2460
 aggcaaagat acttgcttca tccccccctg cacctggacg tatctccaac aagcatgaaa 2520
 ggtctgcgaa aggatggcgg ggcacgaggg cgcgcttcaa attatccgaa atcgcagtca 2580
 gtttagcttc cgtggtttgc aattcttcaa cggcaatgga cctcagctcc gcttccgtat 2640
 ctggatcttc tagcatggaa tgaagctctg acattgacta caaagcgtca gtcaaagatc 2700
 caatttggtc agggcggaag aagctgacct cgttggcatt gctccattct gcccaggctt 2760
 ttgcaactgg acctagctca ccagcgcgcc ttgcaatttt gggatcaaag gaggttgta 2820
 gctgattcga aagatttgca tgttcggctg caaggttgcg agctcgcgtc aggagagcag 2880
 gtgataagag tttgtctggc gtaaagggaa gcatcgtcag catgtatcta ataagggtga 2940
 agtagtccgt ggggacgctg tataccagtt tgtagacctc tccgctggta gagcagccgc 3000
 tggttgcata ctagtcgcgc ggggcgcacc agacatcgag aacacacacc cagagtcgaa 3060
 agcatg 3066

<210> 1764
 <211> 3362
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1764

aatttgccgc gtggcttgaa agtggttgaa gatggacgca ggcggacgaa gtgtacaggc 60
 ttggcatcga ccgagaagca cgaccaactg aacgtctgat ccgaaaatac ggtgaatttc 120
 agagacgcta tgaacaacaa ccgcaggaca atggaccttc gtcaccggcg ctccctgcag 180
 tgcgcccggc actggccgcc aaagtcgacc cgttcgcttc gagtgcagcc gcacccacag 240

atccccaatc ccagcagcag ggttcaagaa ccacgaacgc gccgaagaca aaatcgggga 300
agccgaagat ggccatattt actgataccg agcctgcagc aaatcaaccg gcttttaggcg 360
cacaaactaa aggggtgggac agtcttgaat ctaggcacga tcgacgaaag gagaacaaaa 420
tagaggccaa accctgggcc ggggaaacat tgaaagctgg aaggaaagct ccgccaaagg 480
agaagctagc tgtttttagg gatgaggtaa gttttgtgat ttattcaacc cgttcgtca 540
gcattccgta tatttacgat cataggacta attggtggca tgaacctgga ttggtttact 600
gttatgtatt cagtcaaagt cagatttacc aaccaaagag gaaatgcaat caaacccagt 660
tccagagcac cgcatacggg aagccgtaaa cccacgtaca ggaaggagag agcgagtctt 720
tgtcgacctc gatgcagtgt accccgatta taagaatcct agcattgagg ttagctttga 780
ggagctgagg gccatgaagc gtggctggat ggacagggac tggcgcaaga aaggacctct 840
caagcagatc tctggcaacg ctgtccaaac agagccta at ccatttaacg acaaagccct 900
tcgagaccag ttccaacaaa agctgtcggt gaggaatata gatgaccatg ctttgaatca 960
acccatcgtc tctgagaaga ctcatgacgc caaagctgcc aaaggacgga agctgaaagt 1020
ccgcgaagtt aagggcgaaa cacagacaag tgagaaacta tggcctacct gtccctaaat 1080
gtcttattag gctaactttc gaaatagtca aaatgaaatt tgactctccc actggaggca 1140
agatccgccg caagagcacc gcagagccta cgatgacaat ccatacgcgc gctgcaacag 1200
acgaaatata cagcattttc aaccagcctt tgaaagcgga gaccgaaaat gtggccgaaa 1260
gcagtgat tt cgatgatgat gactatacca gtgccggtga aagtacggtt ggacgaatat 1320
ctgctgcgtc aagcgatttt ggggacgaca cattccacaa atcgttcgat gaaggtgacg 1380
gcgatgactt cgaaaacacg agcgccgaca gcgttgtcaa tggagaatgg actcgatttt 1440
ccgctgctga actgggcgct gaagcaacct cgttccactc agaagctgct gaccaaacac 1500
aatcaacgat tcaccatgcc gaaagcgacg acacagaaga ccaggatgct ggaccagaat 1560
ttgagcagcc gcaaaggccg agattcattc cagagatgcc agaggattat gtaccacccg 1620
ttggaccgta ccgagatcca gtcgttgtgg ctcaaagccg cttgccattc atgacaccta 1680
ttgttgaacg caccgagcat tcattccctt ccatgactgc agcgcggtct aacctataca 1740
gcgcgaagac tccttcgaac gtgctgaacc cgacgacaac acctcgcatg ccccgatgg 1800
gaaatcttct ttccagtccg cttccaacgg aaacacctt tcattggacaa accatgcacg 1860

gcctagaaga tatcattgaa agtcccaccg caaacagggtc aggttcttct agcctgagag 1920
 taccatctcc cacaaaggat tccaatccac aaggtactat aatcaaagat actcttttga 1980
 atcccataga ccggtcgatt cgagacacta tccttcagga attgcacacc acgctcgctg 2040
 cgtaccctgg ctaccatgct catccggata cccaatctca ttacgccctt gagatagaaa 2100
 ggttcatgaa aagcagcagc aagcgttcca gaagtggcgg cgaggcggcg tttgacgtgc 2160
 cgatcatcga tccgccggga ggagagcgca gttatatcat cagacgggag ctcggtgcag 2220
 gagcctacgc tccagtctac ttagcggaga gcattgacaa tctagactct gactcggaaa 2280
 tggaatccgt tggcagcaat agcgggcgct ctaccgtttc caacagctta acgcggcaga 2340
 aaacaccccg ttacagcttc gaggcaatca agctagaggt tggcccgcca aacgcctggg 2400
 agttctacat gatccaaacc gcacatcacc gattaagcca gcttccaacg ctctcgctg 2460
 cagccgacag tatcgtacgt gcgcatgaga tgcacatttt caagaacgag agcatccttg 2520
 tcgaagatta ccgcccacag ggaacgttac tggacctcgt gaaccttgct cgcaacgaag 2580
 ggatctacgg cccggcgact ggagagggag gcttagatga gtctctagcc atgttcttca 2640
 ccattgagct cttccgcact atccaggctc tccacacctg cggcattctt cacggcgaca 2700
 tcaaagccga caactgcctc atccgcttcg acgacaaacc agacccact cagcagatac 2760
 tcgatgaaaa cacagatccc cgcgaaattct actattcacc ttccggcgct tttggctgga 2820
 aaaacaaagg ccttgccctt attgactttg gccgcgggat cgacatgcgt gcattcgacc 2880
 cgtctgtgca gtttcgttgc agattggaaa acaggggaac atgagtgcc tggatccgt 2940
 gagatgagac cttggacgca ccaaattgat cttttacggt cttgcgggga cagttcacgt 3000
 tatgcttttt ggaaaataca ttgagagcgt cctaccgat gcaagcaaaa aaacgtatcg 3060
 gtttcgcgaa ccggtgaaga gatactggga aaagattttc tggcccgatt ttttgatctt 3120
 ctttgaatcc tatacggacc ggggggttga tggagcaaaa ataattgtac cccccacct 3180
 tcaggccatt tcaagcaaat tccggaacgg ggaaagtggc ctttcccccc aaaaaagggt 3240
 ggtttaatcc aaacgcggat ttttggaaaa aaaaaaggga gaccatttca attctccctt 3300
 tttgttcaaa acaaaaggag ggggtttttt tcctcctttt aaaaatgggc cccctggggg 3360
 ct 3362

<210> 1765

<211> 2512
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1765

```

ggagacgctg gggagtcacg agaactgcgc gcatctagag gggctcttgg agtagtcctt 60
catgccctcc ttagtgacgg tgcggcggat gacgaacttg cggacgtcgt ccttcttgtc 120
aagaccgaag aagttgcgga tcttggtggc gcgcttggga ccgagacgct tgggaacgac 180
agtgtcgggt agaccgggaa gctccccctc accctgcttg acaatgctga gggcaaggac 240
ggcgaggctc tggccagtga tggcaccacg aacactcttg cgcttgcgct caccagtgcg 300
gcggggggcgg tagcagctgt ggccgtcggc gaggagaagg cgggtacggg tggggaggag 360
aactgtacga ggaacgagtg agtttcttgc tttgtcgtgg gagtcggatt gtttgcggca 420
gtcgttacat accaccctgc ttcattggga aacctgtaaa ataaaatcgt tagccatttg 480
ttcctctgcc gagtttgacg atctccccgc gcgacaagtt aatttcgggt tcgtatccat 540
aaccacgcc caaacgccag aattgcaacc aaatatcgga agatccagtc gtaccttgct 600
tgtcgttacc accagtgatc ttgaagaggt aacccttgaa ttcgtcaccg agagagtcgc 660
cgggaaccta ataaccagaa agacgccgca tcagccacca attctcatat cattcaccgt 720
gcgttcttca tttgtgtttt cttttgcgta ggacggatat gtgcttcggg aatagatgga 780
tggttcgact gacttcgggt cccatgcgct tctccatgaa aggacgaagc ttgcgctcat 840
cgtcaatttc gacgatcttc tgcgacccat tggccgggta ggaaatgttg agcttcatct 900
tgacggtgat gcgcggtcaa gacggagggc gcgggattgt cgacggtcga agtgggtgcgt 960
tcggtcgttc aagcgaaaac aagtgtggat ttttgtgtcg atttcctttt ggtgtagcga 1020
gaattcggtc tgtgggtggc tgagtcagcc actagcctag gacggttagt gcttcggtag 1080
ggctcttagt cagttgacgc ctgaggctgt cgcaacagag gtaatccttt attcaggcat 1140
cgattctgat cttctctccc aaaatcgatt tgatcttcgg aaaatcgttc caatgggaca 1200
agtctgtact ccgggtccta gattatagca gatggacctt tcaaacaatt tcgggctcta 1260
tgcttgacga ctttctagta ttccctgaca ctttctctt ccgcagcagt acgtagacta 1320
ggtgacgcaa tccaccgaca tcctccagtc tccgtgcggt taaatctcca gaaggagaac 1380
gtccatgata gttgccgtta gccttacagc ttacagggaa acctccccct ttctctttct 1440

```

tccacttccc cctgaggcat gtatatacca cttcctccca atatcgtag aatattactt 1500
 ttatcattca tttgcttcca ccactctttt ttctcttctc cccgctcttc tttcttctc 1560
 cgttcgcggt tcgaagtctc acgcgacaca ctggatatcc accccggggc atctccggct 1620
 cttgattttc caatctccat tcagctcttt taagtaacca acaatacaga gtctctagcc 1680
 tcgaattccc ggcttgtgac ctactttcta gtatcatacc gggcagttgg gggggagggtc 1740
 catatttcta tacgaacgcc gccaatcccc gactctccgg ttttactttc tagacgctga 1800
 gcgactatcg cggatagccg aaacctgcgc atacgtcttt ctgtctgatt atgcgcccaa 1860
 aaatgagggt taccagcaag tttcacatcg tttgcgcctt tgcggtgttt agcatcctgc 1920
 tttcagccct gtttctcggc tcgcagcgt tctactaccg caggggttggc accgcggacc 1980
 agccaaccgt ggagttccag gcgccagcct cacctgaccg cagactgggtc gtattcggcg 2040
 atacatggag tgataacaat gctaaagaga ttcaggggtg gaaagtctgg accgactggc 2100
 tctgctcttt tgtaagtctt gactgcagcc ggccagttcg gatataccgg ggtttagcta 2160
 actgaatgac ttcgcagttc tcatgtcatc atgagaatct tgcgcaaact gccaaatctt 2220
 tgaaggggac ctatatagga tctgtcgtgg ataatgagga acttgcaggc accttcctca 2280
 acttgtacaa gtcgccgttg tctgatttca gagcccaggt caaacagtgg gtggacactg 2340
 agacaaaagg tatccagcaa ctggacgaag cagtcattca tgatcgccgc aatcgcacca 2400
 ttgtggtagt ttccgacagg gtttgggact tgtggaaaaa gataaccaag gactacgaga 2460
 cagctaccaa gtcaggagcc acatcgtaa agttataatg aaacagttcg ag 2512

<210> 1766
 <211> 4008
 <212> DNA
 <213> Aspergillus nidulans

<400> 1766

ttatgcgttg cgcttaatga ggttgccctc ggtggagggt cgaatctcat gacacaggag 60
 gacattgata acctcacacc ggaaatctac gacgaaagag tcaagggaag caaatgggtg 120
 ttcgtctcag agcacgcctt catcctcgct atatggtcaa tgaagacatg catgttgatc 180
 atatacggcc gtatcacgta tgggtccaat tcaccggttt actgacttct cgcactctgac 240
 ttgacttctt aaacagagag ggattgcccc aaaggaaatg ggtcaactac cttgccatct 300

atgttgcgct ggggtttatc gcagtcgagc tatccctctt cctcatctgc cggccgctat 360
 caaactactg ggcagtgcct actcccaacc gttagtctct cccactcgta gccttatcca 420
 cgctgttaac cacgctgcag cccaatgttc cacttttcaa tactacgaga tcatccaagg 480
 atgcgtggct atcactgctg atatcgccat gcttctaatac ggactccac tcctaatagca 540
 agttcgtgtc ccgctcaagc agaaattgat cctcgtcatac atcttcggaa tgggagtctt 600
 tgtcattgtt gccgccatct tgactaaagt ctactgcctc gtcccggagt tgatttcgta 660
 cgtctacatg aactgggtatt tccgagaaac tactgtcgcc attctcgtca ccaacctacc 720
 tctcatctgg tcccttctgc gcgacgtctt ccccgcgctc aagagctgga caggggggctc 780
 gaaacgcggt accaaccgct accgatctgg cccttggaac agcaaccctt ccggtcttaa 840
 gcacttcggg accggcactg gcactacca cctacgctcg ggcaacgagt tcccaatgca 900
 caaatacgat cgaagcggtt tggttacacc gcagaaagat atgtccgagg tcagcctgga 960
 acatacctac tctcgcggcc agagcgatga cggctcagaa cgagctctgc aaatccgaca 1020
 agacgtgacg attgaggtca tgcgcgagtc acgaccacca gcaaactatc acctccacga 1080
 cccgcaacct taagaaaagg cacgcctatc aaccttcgct tctttcctgt atataatttg 1140
 tctgctaccc cgagccctgt tcctttgttg tttgtcatgc tgttacgact agacccgatt 1200
 ttccctgaat agattatctc ttcggagttg gaagtacacg gataccacaa tatcatcatt 1260
 gtttgccccg agctagaagt cagactcgct gaatctcgaa tccaccaaac aacaaaatgc 1320
 ctaccgatg atcggcaccc cgtcccattc tccagttttc cccatttcct caaccatgga 1380
 atccgctctg caactactcg atcggaatac tgggtgtgtt tctgcagatc tcccgagcgc 1440
 cacgtgatgc ttctgtaca tttctcttgc ctctcgccc atgccatcgg gctaatecggc 1500
 aacactgtcc ctctctctta ttaaacattt tgttccattg aaagcagcag atcgatatct 1560
 gcaggatatt ggagcatcgc caaattctct aacgatctta tgagcttcac tgagggtgctg 1620
 tacctgcgcc atgcaggaga tgagcaattc caaatcttag cgcccaaatac tcggcaaata 1680
 agcggcggat aaagaattct tcgagaaatg acggcaatgt gcaagccagt aaccccaatc 1740
 agcatgtgga gactgtagcc cacagcagca gcgcatggtt ccgggaattc cgattattcg 1800
 acaagagcga tcgagtcaag catcggttga cttcattctt ggcggtcctt gtttcgaaat 1860
 ctattagcgc tctgcgtgc ttcatactgt gtggcgagac gcgtccgtct caatatctgt 1920

tgcaatcctg ccgctaagac ttcgaataat ggtatggtga atgcgggaga acctggtctc 1980
 ccactcacga cggatatacag atctatatca cggagtagac cgtcactatc gcggagcgtt 2040
 tagctttggg caccggtccc atataatcat atctgatcaa agactgaacg tacaagggtta 2100
 cggagtatcc acttagtaca gggcaaagca atcgcttaac agcagcacta tgaatcattc 2160
 ctggctatga ttgttttctg gtgagaaccg gcctcgacac tatgcgcttt agccaaattc 2220
 tattccatgg gccgaccacg ttgctctcca ccagcgccag cccataccca ggaagtagga 2280
 tggactgcac tgtgtctgcc gaccggaact gcgcatcacc cctcagtcca tggttgagat 2340
 taggcaaadc ggcattctgc ttgttactcg caagtttttc aggcacactc gtggcctacc 2400
 atggttgaga gatcttccac gggcattcca caggcattct gcggccaggt cggccaacga 2460
 tcttccgtct cgagcataag ccgctcggtg ctcaagccta ctactgagca ccgattagtt 2520
 cgagtcggtc caacgtctca caggaaatgc tctgtaatta cttgagattt tcgacgagca 2580
 aacatcgaag ctggagtatt ccgcttccca gtactaatag acgctttttc cagctagcca 2640
 ttgttcgaag taccgccgtg caaaaaacac acgatactaa aatggcgtcc gagtagacct 2700
 cgattcctcg aaaccagagc tcggtaacta ttctgtttg aaacactacc tccgctcgcc 2760
 cgttctccag tggggagact tatcgctttg actccgattt tagcgcaact cgttgaaact 2820
 atacaagaaa accaaccaca ctaaaatgca tagttcgaac tttgaccctt caccgcctca 2880
 agctggacga caccttttta acaacgagtt tctgatgacc agatgctcgc cacaccttgt 2940
 tgttgcacag acctccggaa caaaaggtat ttgtcacgga ctatccacgc gcggcgctgg 3000
 cgtggagcct gattcaccta cgcgaggccg cttaaaatag ttcttggtcg tcgttggtgc 3060
 agcgcgtcga gagtttatgc tactgaattc agtcgcctaa ctctctgcc atatgccctt 3120
 gcgattatac gtgctaccag cctcttccaa tatccttga gtttagctgg acgtttattc 3180
 gaccgctggc tggtgaggat aaggcgaca cttcagaagc cagaagtcct tcacgcttag 3240
 aatggaatta acaacgatgt atccaggtca ctgccctccg ggcattccgta tcatatcggt 3300
 ccatctatta gagtataaca tccgggtcac acaagaaaaa gagtcggtga attcaagtgt 3360
 cttgaagtag atttattaca acgcatcata cctactagac cacattcagt actcacgcaa 3420
 cattctaag ctgagataac ccagcgatgc tagggttaca agccattgaa tgattacgta 3480
 ctacgattgg cttcattaac cggtgataaa tatatatagc tatatgcta cagctgaact 3540

tctatagcag cgctgcatgg tacaaatgta acatcccaaa tagtagcaat actaccacga 3600
 tgaggatttc aggattgcga aggggttttt cagatagaaa actctgtctc agtaaccacc 3660
 tcggactccg catactgtat tctctcccca tgtctagtaa tccctaggga tcatcaatct 3720
 taacaagatt ccctaattta tggtaggggg cgctacggtc agtattagcc gtcaacatat 3780
 ggtcaagga tctgtcctcg ccttcataag actattgaac tatttctgtc gatctatcga 3840
 cagtgcagat tgaacttaaa attggatatg agagctagag tatactggga atggaggcct 3900
 ttattcggta caaatgtata tatatattag gatgctaagt ggctaggagc tcagtctctc 3960
 atgagagctc gaagcttcat gtaggagtct gatgcctcc gcactcag 4008

<210> 1767
 <211> 2052
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1767

aaaataaaaa atagaggaaa cataaaagtc tttcaaacga gaggaatctt ttcatacatt 60
 ccaaggcaac gaataagtat tctcccaacc atgaggggtg tccaaggctg gcgctcacia 120
 cgggttgtat tatgtcagca tggcaaggta gggtttaagg gggagagggtg gccatgttgt 180
 cctgatcttg caattgggcc agagcactag caaaattatt aataaacgga acagacaata 240
 aaataatcag cggacacata cctgaaagcg ttgatggagg atgcagcctc cttgtcttcc 300
 ttcttaccgg caggggggtg cccagtcagg ctgctggcac cactgtcgtc gctgccacga 360
 accaaattgc caccagggcc gaggttctta cgtccactgt tgctgcggga gccgagcata 420
 ctagaaggcc caaaagacat aggctgggtg gtgttgcggtg tggcggaag tcggcgagg 480
 tcatcactgc caactttgct agacgcgtaa tccggcgggg gtacctgtcc gtatccagac 540
 gagtagctac gggcatcacc acgtcccatg gcggcggtc cacctcctcc gcggctggct 600
 tgctggcgct gacgttccat ctggcctcc tgttgcgac gagcagccta gaaaagttag 660
 tgaaaccaat catctcaaca gatgtgaaga cacatacctc ctacgaatt tgctggatgg 720
 tcttaggacc tttgtcagca tccttcgaga cccagcgagc attacgcaga tcgataatat 780
 cctgaaaaaa aaattagcat gctgttgtca ccatacagaa attggatgac ttaccattag 840
 cataaacttc agacgactag gcaagttcgg agtctgaacc atgaggttga tgcgttggaa 900

gtaggcgtcc ataaatttac ggttctgctc attgtcggga gaatccaagg cagcaccaat 960
 ggtgcgagcaga agacttgtca aactctcgac ctcagcttcg tctggagtgc cctcataatc 1020
 aacaagcttc ttgatacaca tatgcatgat acgctccgtc aacatgcccga gcttgaacaa 1080
 ttcaccaatg aacttgacga gacccagacc acgacgtttg gcagcagcag cagcgtagta 1140
 ttcgtcggac atcatagccg cttcctccgt gacaccctca ggcttaggag ggaggttgac 1200
 cttccaaccg cgctcgaatt cttcttgaca acggttgaga aggtacttcc ggaacagact 1260
 accaccggcc acaacattgc cgttcttgtc cttgatgttc tcctccttaa tatccatgct 1320
 catgctctcc aacatagtct tgcagaactt ggcgtagatg gaagcccagt gtgcctcatc 1380
 ggtggccttc tcgaatgtaa gttgaatgac ttgtcggagc gtacgtccgt cagactcatc 1440
 cttggattgg gagacaatct ccagaatctg actggatata cgcggaagt tttccggcgt 1500
 catcttattt agagcggcct tgaccttacg ctgaacaaca tccgggggaa ggtggccacc 1560
 aggtgtagga ccagaagcag cggcagcctg gccaaactg cgaggtttcc atccagtggc 1620
 agaaacttgc agaccgggga cctcctttcc ggctgtgagg ggcatggact tggccatata 1680
 ctctcttttc tttgcctgct gcttctcgcg cttgctgctt gtgcgggtgt tagacctgcc 1740
 cgaacctgca cgaggcgaca tgggttgaga agagttgctg cgactgagcg gagtaacacc 1800
 actgcccatag cccattcgtg ggaatgagaa tgcgctgcct atggatgcag ggcgtgagtt 1860
 ggataacgca aaccgcattt cagacgtggt gcctggaggc aaacgggatg gtgcaccaaa 1920
 ggcgcccatac tggaaatctg aagtaggccc cccacgagac gggttacgcg acgccggagt 1980
 gcgggcagat tgaggacggg atgagtcatt atcgccgaca gtctcacgta ctgcacgctc 2040
 ccagtcgacg ga 2052

<210> 1768
 <211> 1510
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1768

gctccaccgc gctggcggcc agatctagaa ctagtgcata cctgcactg attgaatttc 60
 atgttaatct attccgtcca cctcgatctt caagtaccaa tccgaacgcc atcaaata 120
 acggtatcat tttctcgtag cgggcaacga gtaaccctc gtcataaat cagtggtttt 180

taaactgtga gtcttttagag tccttcgtga agagactgct gatattgtcg ttcgtccccca 240
 tcaacttgcg ccgctttcttc ttttcatttt cttcctccaa aaccgcgcgc gttagcattg 300
 ccgtagctgc gttcttgatc ccgtttggtg cggacggcgt cggcgtggac gtgttgcttc 360
 gacttgctga tgctgatggc ggatccttcg aaagcgtagc cttcgacgat gactctctgc 420
 tggcagcatt gctctcggtt gccgttggtg gggctacgtc cgcacggaa ttgcccttgt 480
 tcttgcgctt cttcgagcca ggggcttttt tcaacgagtg ggtgaggtgt tgatcggcta 540
 aacgcttcaa tcggtcaata agacgctgct tgctgtcttc ttttgtagga agaattggga 600
 tgatgttttc ttctgtgtag ggttcgttgc actgtgactg ttagtctctt gggccactta 660
 gatgtgggag atacaaacga agacacacct gtaagcactt atcctgcttc aattgccgaa 720
 ccgcctcctc agagaacaca tgcccacatg ggacaatata aaccgccttg acgcttggcc 780
 ccaactgttt cgccgtaaca ggacagatcc agccctcact ctttccttct ccattccctc 840
 tagcggccga gttttcctcc cctcagtat caacttcgaa cttcaattcc acaacatctc 900
 gaagccccctt gactcgtcca gcgagaatct cctcacagtc ggccttggag ctgattccct 960
 cgacaacgtc ctgcgccggc aagaggaatt tcagaatcgc atctttattg tacaagttcc 1020
 cagcgcaatc agagacaatc ggacgctgaa gaggcttgtg cgagagtggg caggtggtcc 1080
 aaaaatgtgt ttgaagctcg cgctgtgttt ctttaagttg tgctgtgctg ggggtgcggg 1140
 cggcttcacg gacgagttca cggcggggtg ggatgctggg acttgtaaat gaatctaccg 1200
 ctatggctgc ataaaacgac tcacctgcca ccgtcgttac ccatagttgc agagactact 1260
 ttaatcagac ttgatgctgc gtaggtagga tgtcatttcc tccgtttctc aggtggcttg 1320
 ccacagcttg cgggatggtg gatgactaag cgcatagttc cccgatcccc agattggcgt 1380
 ctccaagggtg tcaacagctg gccagaactt ggaactgaag ctagggtgtg cgagcatctc 1440
 cgcacttgcc attgttggtg gagtgtatcg ttcacccggc atttgactca ccgcgttctg 1500
 atgctgagga 1510

<210> 1769
 <211> 664
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1769

acgcacacgt ggtgtttgat gactcaattc tctgcagccg aaagctgttg cctgcatgaa 60
gtcacaaagg ggcagggatt ttttcaccgc tacgggcact gctccgagag tgtacaccga 120
ataagataac aggcgatcca gcagcccagg gccagaagga ttagacggac tgcagagtta 180
tccctcaagg ctactggaat gctcatcttt ggcagtgaca tgatcacaga tagccaaagc 240
gttccccgac tcgcgtatga tactgccgct atagcgaggc atgctccgcc gagaaacggt 300
gacctttacg cttacttttag gtgatacgct ttctatgagg gcagctataa gatacgctca 360
tgctcccaga atgtcagtat tgggtctttat ttggatggag gtatacagga cagttgtctt 420
ggagatactt tgcaatgaca acccacggta tgtatctagt gcatgcttat gatctcggta 480
gactagcatt ccatgaggag gcgcctgatg caccggacgc ccgctgttgt atccagttag 540
atactgggac acaatgcac gtggtggttg tagacggcca ttagctgtga ggactctttt 600
gacagtttag tggccactgc cgccccggca agcaagccac caaggcatag gaatactcaa 660
agtt 664

<210> 1770
<211> 3444
<212> DNA
<213> Aspergillus nidulans

<400> 1770

cccggcttta tggtcggagc caaggccgag caccgccgga tcatcaagat gggcgctcag 60
ctcgtctcgg ctgtgagctg ctctactgtg cctcacatct ccatcatggt aggcgcgtcc 120
tacggagccg gtaattatgc catgtgcgga agagcctata agcctcgctt catctttacc 180
tggcccacgg gccggtgcag cgtcatgggc ccagatcagc tatccggggg aatggagtct 240
gtgcagcttc agagcgccaa gtctaaaggt aaggctctgg agccgacctt gctgaagaaa 300
caggtagaga gtttccgcca gagtgcggcg cgggatagtg agtgctacgc gaccagttcc 360
atgctcattg atgatggcat cattgacccg agggacacga gggacgttct agggatgtgc 420
ctcgaggctg tcaatttgaa tgggggtcaag ggaacggaga cacatcatct ttagctaga 480
atthaggtct ttagctttt ctatctagta tatagtctcg tcgaatttga acgcttgccc 540
ctatccttac tttaacaacg cccctccaat atcgaacctc agatcgacaa agtactattc 600
ctccccagag aatggggccac ctctgtcgt tccggagtgg agaattgtga tggtcgatct 660

ggagacggtc cgacgagaat gcggtccgat atccgatgtc cgaggtgcta tccaagacta 720
 agtaacatag caccttacac ttgcagtga atcaaataga tatcgtcagg acacatctga 780
 gttacagtcg catattttct actattgtgc ttccattatg gcaaaccctt cccttaacgg 840
 cgagaccgtc cacgcggcac ccttacggcc gccactctac gtcgccccat caccattagg 900
 cgaggatggc cgaccgataa tcaagaaggt cttgattgca aaccgcggcg agatcgctg 960
 tcgtattatt cagacgtgtc acaagctcaa catagctacc gtcgcggtct acgtcaatga 1020
 gtatgttctc cttttttgca tgaagacacg ttgtcgctaa cagaagcaga gacacatcat 1080
 ctcgccatat tagagatgca gacgaggcca ttaatattgg aagcattgat caatgccctc 1140
 gcaatccgtt cctagatgga gaactcetta tccgcaccgc tctgtctgta aacgcggacg 1200
 ccatccatcc cggatacggc tatctcagtg agaacgctga gtttgctcgg tccatccgcg 1260
 acgcaggaat gatattcatc gggccaagtg ataccgccat gtccactttg ggcaacaagc 1320
 gtgcggcaaa agagtacctc agcaagcatg cgccagatgt ccccctaata cctggctacg 1380
 taggatcaag ccaagacgca ccggagctta gtaggattgc tgcacagatc ggctttcctg 1440
 tcatgtctaa ggcgtctgct ggcggtggtg gcaagggaat gcgaatcatc cgggaagctg 1500
 gacagttgca agccgagttg gagcgggcac agtctgaggc cctgcgttct ttcggatccg 1560
 ccgattgtat tcttgagatg tacgttgaga gcagcaaaca tgttgagatt cagctactgg 1620
 gagactcgta tggagaggtt gtctcgttct tcgagcgca ttgttcagtg caacgacgac 1680
 atcagaaagt catcgaggaa acgccgtgca cttttctgac ggagaagacg aggcaagaga 1740
 tgagtgtctac cgctgtgcgc attgccaaac tccttggtta cgaaaatgct ggcaccgttg 1800
 aattcgctgt cgatgtgtg actggcaagt tctatttctt cgaagtcaat gcccgctctc 1860
 aggtcgagca tcccatcacg gaggaggtga caggcgtgga cttggtctcg ctgcagctct 1920
 atgtagctgc agggggaagt ctacgtgtc tacctgcgt ccaaggcctc acccaacaag 1980
 gtcacgcaat cgaatgccgc ctctgcgccg aagatccacg caagaacttc ttccctgagc 2040
 atggcaagat ccatttgtgg ctgccagcat ccggcgtgct ggggccaggc cgtgatgttc 2100
 gctacgaggc tgcagtacag tcaggctcct cagtctcgat atatttcgac tctatgattg 2160
 cgaagattgt cgtctgggca ccgacaagag ccctcgctat agagaaaatg gtcaaagtcc 2220
 tcgcgcatat aatctgcgct ggtgtccaaa ccaatcagct tctgatgcag cgatgcctcc 2280

tgcataaggc attccataac cctgcataca caacgtcttt cctcagctta catctcgatg 2340
 agctacttca cgagcctggg ggcctaattg ctgagatacg caagtccctg ccgatagtcc 2400
 cggcagttgc tctgcgtcac ctggccgect tatctgcgtc tcaaaagcgt ccttttcaga 2460
 atgtgcggcg gcgcttccga aatcagcacc atgaccgggt caatctgcag tatgatgtcg 2520
 ttaccatggt cgactggccg tactctctac cggagacaga cccgacgaca ccactcatgt 2580
 gcgtctggac cccggataac accggggccat ccgccactca agaagcacac ctgcttgcta 2640
 ttcttgagat tgatacctca aacgacgtca aaaagcctgc ggggacaagt gcacgctacc 2700
 agaaagttag caaagtgctg cgagatgatc tagtaaactc ctcaggcaca cggtagcccg 2760
 tgaagattga gtcattggaag cctgcggagg gggaccctgc actcaaggaa tcatggctat 2820
 caagcacctt ggaaatcagt atcaatggaa cgaagctcct cgctacgta tccgtggcta 2880
 tcaatcgact cgaagccctc gcaggggtgc tcaatcgac gcagactgtg ttctgccata 2940
 ttccagcgat tggagcgctc gtggagttca agcgtgacac ctctttatcc tttgtcgaga 3000
 gcacgcgtgc tgccgctagc ggtgagaaca atcaggagca gaggactgtg actgcgccga 3060
 tgccgtgtaa ggtgctgtca acgctcaaga agaacgggga gcaggtcaaa tcaggagaca 3120
 ttgtaatggt gatcgagagc atgaagatgg aggtgacgat cagtgcctct gcagatggtc 3180
 agtttgagac aaattggaag gaggggtgatg ctgttgagga gggaaagact ctgtgtactg 3240
 ttaagtaata tttagcattc gttcaattta atatgcttaa cgagttctgg ttgtcggatg 3300
 gggccactgt ttcccgtaaa tgtcgttctg caatggctta cagcaggatc agtacgtgtt 3360
 tgtatacagg tagtcacgat tcacgcaagt ctcttctata aaatacccaa tatgtcctaa 3420
 tatctacaac ttgctcaact ttcc 3444

<210> 1771
 <211> 5031
 <212> DNA
 <213> Aspergillus nidulans

 <223> unsure at all n locations
 <400> 1771

cgaggtagag tctgttgctg gtagatgggg tcgtggtgcc tgggatacgc gtgaagaccc 60
 tcgtcacagc atctctgacg tcgtcgtact tccaagtctc cgggaacgat tcgtcaaagt 120
 ccttgctgta aggcttccac cagagacctg agttaactgc cgtgccgccg ccaacgaggc 180

atccggccat ctggtcatta tcggggcagg caatgccatc gctgttcttc cagatctcgt 240
tgcacagacc gggcacgtcg aaacgggtca gatcagtgcc gttaagccag tctggcttca 300
tggtgccgtt ccagagtccg atagaggggtg ggcccttttc gataagcagg gtctttgcac 360
ccgcttcgct gagtcggtcg gcaaggacca ttccagcagg accagagccc acgatgatgt 420
agtcgtacgt gacgtttgta gggacaggca cgccctgggtt cgtcccgttc ccattatcac 480
caccgccgcc accatcagta ccgcaagtcc cgtcgacgac gttggtcgcg agcgcacccg 540
atgtctcgta gttggaggtt gcagcgtcgc cgtcagctt tcctaccag atcccctgcg 600
cctcgtgctg gaccagactc aggtcatccg ggcagtccgc gttcgtggga gactcctcgg 660
cctgcgcccc ggcgaggatc agctgcccag cacttgctgt ggcgctaccg gagacgccct 720
cgtgggtccc gcgagacac tcttcgcaac ggaagaggac ctggaacttg tcggcagtga 780
cggtcgacga gatctgagt agggtcgctg tgccgctgta gactgagggc atagcgtaac 840
cggaggagaa gcggaaggag gtcaagacgg tgctgctctg cgcgtaggcg acgagcaaca 900
ggttactgtt catcgaggag cccatagaga gaccgcacca gccggtgaac tcgctcgtgc 960
tagatgagct gcaggactgc cgatctgtca gcattctctgc ctttctattt cgcattcctgc 1020
gacattgtca accgggcaga acaggatgac gcaccaggta tccgatgaac tctgtagcat 1080
ccgtatcaag cgcattcctca gggagggaga caccgaaggn aaccggccg acgacgagct 1140
cgcttcgaca gtccagggtg cgaagacgat cccggtgtcg gggctctgtgt aaacagttgg 1200
gtctccagac tgggcgaagc atggctggag gactgaatcg ctctgctgtt aatatcaatc 1260
caattgaggg ttagggctta gacataccag aaccagccgc caccagggca gcgaatgaac 1320
gaaggaatga atgcatgtcg gagacagggg gtttaaagag aaggtaaaag aaacgaagga 1380
agggaggcaa tcgtcaccag gacgagcaaa acaaagtga ctgcaacctt ggcaaagagc 1440
aattgcagat agtgagcatc cctggctcag cgcatgggtt ggaggaatat atagctggcc 1500
gacggtgagc agtgaccatt ccgagcagcc tcaacctgca acaacaaacc caccgcaaat 1560
gaaacgggca catttaagca cccgcttgat ttccatatcg tcccaggaaa ggagcgatcc 1620
ccttcggcat attgcacggc aagcagggct gcgagtgcag gcctctccaa ctccagacgc 1680
caagaccgca ggggtgtcga ccttaaccgg gcctgtctca tcttaagagc cgtctctaata 1740
taggttcatt ccgcggcgaa tacggttctg gaatcatgac gggtttccca gctaggggtg 1800

ttttatgttg agcttgggtt ggggccggcg tctctatgcg aaacggctct tatggaccgt 1860
 gccccgagtc gggcggttg gcgacgatca cttcagaata aattaaagcc catccaggag 1920
 agagcgaata aggggcgttt gattacggat aagaggctag gctcatacag ggtggactgc 1980
 tggttaagta gtgatgaatg ttaaaacgat ggagtgatag agcaagaaat atgtacagga 2040
 aaagccagat atcatgctg ctatgctccc aaaaataaaa actaaaaatg atacagatac 2100
 ccagactatg caaagaggaa gacgacggga tagatgaagg gtgggatgtt gctaattgtac 2160
 agcgtactcg attgtgcaa gtggcgggg cggtggggat cgctctcggc gcctcagcat 2220
 taccgtcggg gtcgggtgtt ctgtcactgt gatttcgggt attgctgcat gggaggatgg 2280
 ggcccgaact ggatctatcg gcgactcgta gtgagtctgg tcgtggcca cgtagagcag 2340
 aggcaactgt agaagccgag acctggcgcc aaggctaggg tgggtgggga tgctcatgtc 2400
 catatttgaa acggacgagg ctaatcatca acctccctg accggtcacg gcttcttata 2460
 gccataccgc cgggtggtgt ctgcaatcca ccattcggcc atatgtgcag cgtcgcgtgc 2520
 ccaacgcacg acctctggct cccaaggtgc atcttcggga tgcggacgag acggcgtgat 2580
 cgtgatggga ggcggaggag ggccgccgcc tggaggggga ggggtggtgag ggtgatgccc 2640
 ggggggaggt ggaggaggag ggtgtttgaa gaattcatga ccatcgcgct cgacgggctc 2700
 ttcgtcatgc tcttcgggag tattgctctt gtcatccga tactcgcgcc aaagcgtatc 2760
 catgagatcg aagaagctga agctcgtaa cggcttcgtc tcctggggat ccttttcgat 2820
 gtcggtgaac cgccactcga cgtcgtcgat gagcgggacg actatgcgcc actgaggccg 2880
 tgcggccgac cggacggcga gccacgacc gccagtattc atgacgctga actgccagtc 2940
 ctgcatgccg tttgcctctt ggaagagtgg gcggatgaga gattggccct cgtagagccc 3000
 gcggatgtcc cgtgccgctt gtgtggagtt ggggccaaga gaagaggatt cgatcagtag 3060
 gtcgatgatg gtggggacga tctgaaggga aatgacaggg tccttcactt cgatagatgg 3120
 tagtttcggg tgcgcaaaa cgatggggac gtggaaggag ccaatgtgcg ggttgctgta 3180
 gggcgtaatc ccgccgtcgt tggggaggga gaggccgtgg tcgcccgcca tcacgaggag 3240
 ggtctcatta cggacgcctt tttcctccag gatatcgagg atctgagcga tccagcggtc 3300
 tgcaaaccgg atcgtattca gatacttggt catatcgttg ttcttgccct tgaaggacgg 3360
 gcccatgatg ttctcgtagt tgtcgtccgg catgccccag ggggtggtgcg ttgttccggg 3420

gagatgggcg aggaagagac gcttattgtt ctctccgcg tcgtcgaagg cgtcacggat 3480
gtactccttc agctctgtat ccgggtagcc atagtagttg acctctttcg acttgaccgg 3540
gtagtgcctt gcacccgggt tctctatgcg ctctttggta tagatatctc ggaagcccaa 3600
tcgtggcgtc aggagatcct gatggtcata ggtgtctgtg accgactgca tccagatcga 3660
ctcccatggc caggtgcggt aatccgagcc gttggtagtg tcggcctggg ggctgagtgc 3720
attgacgacg tgcggcatgc acgggttgta caagtatac ttgtactcgc ggttaaagtc 3780
ggcgacaagc ggtgagatcc cacacaccgt tccggccacc gatttgatgg tatatgtccc 3840
tgtcgtgaag gcgttgctgg cgctgatecc gccgtacgat ttacgctcgc cgtcgcggtg 3900
ctgggtcaaag ccagagtcga acccagtcag atactcggcc gtgcgagtga ggttggccac 3960
tgttcgtaca gcactctctg gcatttcctt tccgtcaaac ggtccacga tcttattcca 4020
catgaaggag ccgttgcgca gaggaagac atcgctcgc gtgctctcga gtttgaggag 4080
gatgacatgc ttgatgttca cctcgccgct ggccaggacg tcctttagtt cgtccaggac 4140
cggtgccctg aggttcgaca gatgcagcgg gtcttgcgac ggagtataat gctcgcgctt 4200
gttggtccag tccctgaacc caggcagtgt ctctccggc atccagtccc agttgggggg 4260
cttgccaagc gacgtcttac cctcaagcca ggcgtagtcg gggatattcc ccgcctgctc 4320
gccaacggtt ggacggtgca ttccagcaaa cggcgtcac ggaagggcgc tggagaggaa 4380
aatatacgac gggtagcgtg gccgcacgct acgcaggagg ccagacaaa gcaatggcaa 4440
ccagaccacc agccgtttga tgagcgatat gcgctgcggc ggcctctggg aataatccga 4500
atattcatcc tcctcgctgc tcttgtagtc gtgataatcc tcgacggcga tctgctcgta 4560
gacgtccggg tcgggcagcg tctcgctgcc gagccgctg cgccagatcc gcgacgacag 4620
gctggcagcg cgggtgaaca gcggtctaaa caggatcttg aacggctcgg cgagtatatg 4680
caatacgccg ccgacgagcc ggtgcaggaa aggggcaaca agccaggcga tgaccgtcat 4740
gatcgctcgc acgatcaaga atccggtcaa gcccgtagc agagtgcgga tcgccgccgc 4800
atcgcggtgg aacgatttcg cctgtcgcca attgatctca gcaccggcgg tgacgaagaa 4860
cgagatattg gccgaggcca ttccggacat ggtcagacta acacaaacaa cataattagc 4920
cacgcagtta tctctgaagc agaaaccaag tacctaaaag aaatcacgac cagcgccgcc 4980
agagcgtcca gccatcgcca cgggaatttt ggtcagatc cggacgtaga c 5031

<210> 1772
 <211> 2553
 <212> DNA
 <213> Aspergillus nidulans

<400> 1772

```

atcgccattg ccatccatat ttctgcatac atcatgagca gtgtctcttc tacgggatat 60
attggctctt tcccaccact gccgggtcttt cctgggctaag aaaaatgcgt atccacgcgt 120
gttcttgaca tcatggctgc tgcgtttgcc gcattgcgcc atatataatt tgatatccgc 180
atatttcctc aaagcaagca agcactcagc gccatcgagg tcttccttgg tgaggtttagc 240
accactgaat tgcagggcct cctcgcaaca actagtgcag gcattttcac tagctgtatt 300
gcatatgcta gtcacagggg gatgcctgaa tatagaggag ggggtagacg cggggagcac 360
ggatctcca tcagcttgat tgggtactatg agtgctacct gtcccaaaag aactgggtatt 420
gcctttcccg ttaaacggag gagagcttgg tgtagagcgc gcggcagtc agtcactctg 480
agcaaaggaa tcgtaatttc gatgtgatgc gtttggttag ctatctgtta tgcttggaat 540
caccgggaat tctttctgcc gcgaggtctc cggacacaga agcagagggg ggtctagaga 600
acaagccaga ggctatgata tgcttgccaa cgcgcagtc cctagctccg gcgattctta 660
ccgagaaacc gccgtcatga tcggaaagta aactagtgtt agaagcacct gcatttacgc 720
ttgtcctct tctgactgaa gcaggcctag aactaactcc ctcgttcgta ctttcgcatg 780
ctctccctct aaccgcagca tgtatacacc taggcctagc gctgcccaca ttacagcag 840
taactcgtgc cctcctggat ccgttagcag gagcaacatc gtggtgtgat tcatggtcgc 900
agtgatgaga acatctttcg ccatcccttc tatgcatgca ttttgatcg gctgggcatg 960
taccatgaca agtctgccag tcgcaatgct cgcagccgac catgctgccc tttgtgtttc 1020
gtttcccgca gacatcgcat ttgcccgttg atgcttgat cttttccac ttgcatttga 1080
agtgatcaga aggtggtaaa ggaggaacag tttgcgagaa agtcctggct tctcttctgt 1140
ctttgggtggg cattatgatg ctttaaccag gatctgagca ggctggggtc agacttggag 1200
aaaagtaggt aggactagga agtacgcgtg tgcgtgctc aactagaaat attagagaag 1260
acctgtgctt tggaaacact aagccaggga gactcagaac agtcttcagg aaacattggg 1320
attaaatat atgttggtat gagggaggtc ttgaagatga atgggttga agaataagta 1380

```

ggagaaaccg catcgaacag ggcggatagt agtgtaaacc gctcactgaa agccagaact 1440
 acaaagcaac cagctcttac agaaaagaat tttagtcctg gtgttggtcat ccttgtgggt 1500
 ctcaggaaaa aaaaatctct ctatccatgg gcctggggag gtagcaaccg tgagcgagac 1560
 ggatatacac gatctgtctt ttgtttataa gatatggaga aactaagagc gttatattga 1620
 ttctataggc atatatcagg agggctctct taccctttgt tgagattcaa acctgggtcc 1680
 gggtaaagga gttacttctg caagaaaatg gcgttcccaa ctttaaaaga actcagcggt 1740
 gttctaagta tgggtacgac atccttaggg cagggaaagc ggaaaagatc ataaagtata 1800
 ttctgatgtt attggggatt ttatttatct cttttcaatc agtcatcat gaaatctcat 1860
 caacaggcgt catttttgcg tgaaccaag acttctaag tctatttgtg agctgtgaag 1920
 atgaaatttg ttagctgagc gctccagagc aggatttatt tccagaactt acggattccc 1980
 tctcgggct ggggctggat gccacaacc tcggctgccg acttgccctc agccgcggtc 2040
 ttatcatcct tcatgaaggg gaaggcaaga acctcctga tgctgtagtt atccgtcaag 2100
 aacataacca agcggccaat gccataccc caaccacctg tgggaggcag accatactcc 2160
 aagctagtac agaagttctc gtcgataatc tgagcctcgt cgtcaccctg gtccttctgg 2220
 cgagcctgct cctcgaagcg gagacgctgg tcgaaggggt cgttcaactc agtgtaagca 2280
 ttgacaattt cttttttgca gacgaatgcc tcaaacgct cgcagagacc agcgttctgg 2340
 cggtggtact tggccagagg agacatcatt tgaggggtggc cagtgatgaa ggtgggggta 2400
 atgcatgttt cttcaataaa ctcgccaacg agcttgtcaa gcatacgggc gttgggtgagg 2460
 ggcggtgagc actcgactcc agtcttcttt aggaccttct tgaggaactc gccagtttca 2520
 gcagtgtgca gctggtcacc ggggtggaac ttc 2553

<210> 1773
 <211> 2096
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1773

ctgaccaaga agctcgctaa tgtatgatct aatcatgtca gcgatatcca ccttcagtat 60
 tataatcgac gtactctgtt caataaactt tgcatattg cgtactgaca ggacatatga 120
 tagtgtcttc agtacgacct gatagaacgc tatccacgat aaagctgagg ataccgaact 180

ttggcgacag cagcttgccg gttcgtgacc gtccaccttc gatgaaacac tcaaaattat 240
 accccttctg cagaattgtg tcgatatacg cttggacaac ggtattgtac agtggatcat 300
 tcccgaaact tcgccgaatc cacatggcgc ctgctgttg tagaaaagct cccacaaaag 360
 ggatattgag gttgtctccg gcgacgacaa cgggcaacgc aatgcctaata cgatagcaga 420
 taatctggag cgaaacatag tcgacatgcg atttgtggca aggcagaaaag acgatggact 480
 gcttcttctt ggccgcctct tctgcaaccg cacgtagccg cagaatttcc tctactggata 540
 cgtggatgcc tggaaaaatc agcatatagg acaaaatacc acccaatata cttaccctgg 600
 tggtagctc gagtgagaag ctggctagca aggtagtatg cgccgcgaat aaacctcttg 660
 ctctccattt tgcagatcat gttatccaac atctggtcca ccacctcgtt aagattactc 720
 tcgagttcct tccgacgttg cgtgtgagta cgcgcaaact cgccagtcct gatctgtaaa 780
 agcccttctt tgtcttccac ctccagtcgc gcctctgcga gctcttttac cttctccgcg 840
 aggatcggac tcgccaggat atgcgatttg atctgctccg taaaaccaga atagtatata 900
 ggctgccccaa tgatatcatc gtaggcgcgc cagccggtcc ccgacatcat gtacgagctc 960
 acttcgcgca agaagtcgaa cgggttctca cgaaaccgcg ccatattatt gatgagattg 1020
 cgttccgtaa tccctccatc ttgcggtctt ggacctccag tgtaaccgct gggatgaatt 1080
 gtaacctgat caccaacgat ttcaaggtct ggggaggatt caccacaga tgacttcgcc 1140
 ggcgacatcg tcgctgagg ggttcggctg cggggacggg cgaaggaacg aggatgggta 1200
 attcaagcag aggaagcttt ggaagtgtca gactttgcag acgtaggagg ttgagagacc 1260
 catgtcatgg tagacgagga ccgtgaccgc gaaacccct ctccgcagca gcagctaaag 1320
 tccaacaaaa ttgctgtgat cgaccgggtc gccatttgcc ccagactgtc tccgtggccc 1380
 cgacatccga ggatgctgat cacgtggcta gctccgcgg ctatctttgc ctggattcct 1440
 gcggtgtcca tcagggcatt ctactgtgtg ctgctttgaa cgctgcaaac gtgggcacga 1500
 cagtgattaa tatgtcaaga tttgtgtgaa gaaaaacact tatctctgga tggcccgccg 1560
 atttcgtagt ctttccggta caacgtgaat ttgcgtggaa cactgacaac cctggcacct 1620
 cgggtggccaa ccaagctcaa aggatcgtct ccaaacatc gccatgtttc ggcaagcaag 1680
 actactgtca agtacggtgc tcaacactgt ttattgaatc aagtaatcta attttatctc 1740
 aagatgccag ctgcgtttct agaactctta ttcacagtca ctctccctc gtccgccact 1800

actcgtttaa agtcttccgc gatgtccac ctctccgaag ccttcgccgc gagtcctgc 1860
tctccaagcg cactgttggc ctctgtccta caatgggtgc cctgcatgaa ggtcacctct 1920
ctctgatccg tcaggctgcc tccgaaaaca ccgacgtcgt cgtgagcata ttcgttaatc 1980
ccacacaatt cggggtaac gaggatctct ccagctaccc gcgaacgtag gacgccgatg 2040
ttgcaaaatt agaagaattg aacacagagg gtagcgctaa gacagaaatc ggtgta 2096

<210> 1774
<211> 5111
<212> DNA
<213> *Aspergillus nidulans*

<400> 1774

cacagcctgc gctgaggtag gcaggccatc aggttcggtc agacaggccg tgattgacgt 60
gaccgtcgga agcaccgcc agcctgcccg ctgtattaat tgctcgtaac ttcttaccat 120
tactctacac tcaaaacact acgttgacga gacttttagct ggcccggatg ataatactca 180
agttattggt atccgcgccg cgatgaaaga gaaggctatt atgtctccct ccgagacaac 240
tccacttctt gtgccgggtcc aggtcgctcc ccagcgccac cgatatcctc atgacaagct 300
acgccgagcc tgcagttatt ccctaagtct aatcctcgca gtagcccttg tcttattcct 360
attccctcag gctcttttcc cccgtgaggg cggttcgctc tggtcgtatc ttcttgccgc 420
acagccttac cccaatacct ggccgagcgg caacggcctt gatcaggagg agctccagac 480
cctcctcctg ggtaccccggt ctgcccgcgg tgcccgcgaa tggagcaagt attatacttc 540
aggaccccat cttacaggta aaaacctcag ccaggcgctg tggacaaagg agcgttggga 600
agaattcggc atcgtgata ccaagatcgc tacttatgac gtttatctca actacctct 660
cgaccatcgg ctggctttat accaaggcgg taacatcagc tatgaagctt cgctggaaga 720
ggatgtccta gaggaagata gtaccagcgg ttaccgat cgcgtaaccg ccttccacgg 780
atattcagca agtggaaacg tcacggcttc gttcgtcttt gtcaactttg gcacctatgc 840
cgactttgag gacctggtca atgcgaatgt tagtctctct ggcaagattg cgattgccaa 900
gtatggtcgc gtcttccgtg gtctgaaagt aaagagagcg caagagcttg gcatggttgg 960
cgtggttctg tatgatgatc cacaacaga tggagagtac acggaagaga atggttacaa 1020
accatatccc gaaggcccg cgaggaaccc cagtgtgtt cagcggggta gtaccaatt 1080

cttgagtgag ttgcaccttt tagttcctga ctgcagtga taacaggtat aggctttgct 1140
 cccggtgacc ctactactcc cggctatcca tccaagcctg gttgtgagag gcaggatcct 1200
 catcacttta ttccatctat cccgtcaatt cccgtttcca atagggacgt tcttctctct 1260
 ctcaaggccc ttaacggcca tgggtccaaag gcatccgact tcaatgaggc gtggcaaggc 1320
 ggtggtcttg catataaggg cgtggagtat aacatcggac cttcgccgga tgatcttgct 1380
 atcaacctgt ataagagca ggaatacgtg actactctc tatggaacgt catcgggtgtt 1440
 attccaggct cgcttcctga taccatcatt ctgggcaacc atcgcgatgc ctggattgcc 1500
 ggcggtgcgg gagatccaaa cagtggctcg gctgtgctga acgaggtcgt tcgtagcttt 1560
 ggtgaagctc ggcgcgctgg ctggaagccg ctccgtacta ttgtctttgc cagctgggat 1620
 ggtgaagagt atgggctact aggttcacac gagtgggtag aagatcatct ccctggctt 1680
 tccaaatcca atgttgcgta cctgaacgtt gatgtcgccg cgtctggaac ccggcttgcc 1740
 cccaacgcaa gcccgtttt gaataagctc atttacgaaa tcaactggcct tgttcagtca 1800
 cccaaccaga ccgttcgggg acagactgtc cgtgatgtct gggatggtta cattggaaca 1860
 atgggtagtg gcagtgattt cactgcgttc caggacttcg ctggcattcc tagttacgat 1920
 ctcggaattta gcccagcag ccaagaccct gtctaccatt accactcaa ttacgacagt 1980
 tttgactgga tgcagcgatt cggcgaccct gattggcttt atcatgaagc atgcgccaa 2040
 atctgggctc tggccgcgcg gaagctagcc gaaactccc ttttattctt taatgccact 2100
 gactacagcc ttgggttgga ggagtatgtg gatcggatca gacctgctgc ggacaatctt 2160
 ccgaacggcc tgacttttga cttcggctct ctctacgaag cgattagcag gttgcagaag 2220
 acggcaattg agttcgatgc ctatgcagcg gacctgacgt ccagctcac ggaggagctt 2280
 ccatggtatc tctggtggaa aaaagtccg ttgttcttcc tgatccatga ggtcaacact 2340
 aagtacaaaa atatcgaacg ccaattcctg taccagcagg gattagacgg acgtagctgg 2400
 ttcaagcacg tggatattgc ccctggtctc tggactgggt acgccggtgc ttacataccc 2460
 cggatattgt gagagcctgg aagctggaga cgtagctaac gccgcggtaa gtggctaatt 2520
 cagttgtctc cgttccatat gagtatgcta acgttaacat caacctagaa atggcagtat 2580
 atcgtcattg agcgcgtcaa ggctgcaaca aaactgctcc agtagaaggc gctctgagtg 2640
 tgcgtgcatg aaggcctgct tagccaagca gggatcgaga cccatcccat gcagatacga 2700

tgaatcacac agtcggcagt tgtcgaatcc cgcgaaatgta caaacttagg cgccccatct 2760
gaaatttatt gagccatctc cattgagacc acttgtctaa ggttcgatgt atgcagactt 2820
attagccagt tgatatatat atatagagag agagagcacg tcgtcttcag aaccggcgcg 2880
atcggtttct ggggtacaac atcgatacgg gcgctcggat ctctgtaaag aaaaaatgct 2940
gtgaaacctc agaaatggta tgggttgatt agccgggttg cgaatgcagt caccttctac 3000
atcatatatt ggctttcttt cgcagatatt aagacttcgc cggcttcaga ggtacggttg 3060
ctggggcatt gtatataaac aacctccatc ggctcgactc cgctgctccg cttaaagagt 3120
tagacaatct caattagcag ctggcaacgg acagattagg acccaagctg tagaaagaag 3180
cggtatgata agaggaggca ctcacatga atcaatctca tccaaaagtg aaggatcgca 3240
aaaagagggg aagatcactt gacgcagcct ggctctctgt gcggaaaagc ggcagagcag 3300
caatcacgac agcttctcca agtcttgagt ccttagctct agactttctt cttctcttca 3360
cactatcttc tttttgcctt cccatcttta tcttttattt ttgttcgttt ctgttttctt 3420
ttcaaaaagc ctcgttgtcc gaagatcttt agctgtctcc acagcatcta ctcgcttctc 3480
agttcctgcc tgctctttga atgcatgcaa gcactcccaa gctgccagtt cggcagcttc 3540
tcattctctg taagaggetg accgtgcccc caacaagtta gatcttctgc taaaggctgt 3600
gcgcgcacga atatgtcgtt ttgcagaacc tagtacgtga tcgagccttg ccctcagttt 3660
caagacacgg ctaaactggc cttatcggac agtcgccgtg acttcgtacc taccgtacct 3720
tgtaggcttc tctgttcatt tttccttcgg ccctagtcac tgcgctaacy ggaacagcct 3780
gaaatgattg aaagcgtcgg cgtcccgcga tctgaagtcg caaatgggc gggctcttacc 3840
tcggccatct cgtccttttc ccaggccgtt atggccgttt actggggtac ggcttcagac 3900
cgtttcgggc gcaagcccat catctgctc ggactcactg ccaccatggt cctgtctcta 3960
gctttcggtc tgtcgaaatc gctgcctatg ctcatcacgt gccgcggtat gatcggcttc 4020
atgaatggga atgttggcat tatacgact atggtggcag agatggtaca ggataaggag 4080
ctgcagccta gagcgttcag tataatgcc atggtttgga ctattgggag tatttttggg 4140
ccatcgtttg gagggctctt tgcaaggccg acggagaagt atcctgagat ttttggccac 4200
tcttggtttt ttaaggagta tccgtttgtt ctgccaata tggttgctgg gtttttcttt 4260
attattggta tctcgaccgg gttcttgttt ctacatgtat gttatccctt ctatggttaga 4320

gcgccgctaa catgggttagg aaactctaca cacaaaaaaa gggtatcgtg attccgggtct 4380
 ggtccttggc cagatgctca ctggcctttg caccggtaat tgccggaagg tcacaaaaag 4440
 gttggaggat gatgagacga cccctttgct tggggagcgc ttgcctgcat ccaaacacca 4500
 gatcaaggcc gaagtgaaaa agcacagctg gagagagggtg cttaatccgc agtccgtttt 4560
 aattctctta gcataacccc taatgtcagt gcacacgatg gcgtttgagt ctgttcttcc 4620
 agtattcctg cacacacctg tgcagcacct ccaggacaat ccagacgtcc agctgccttt 4680
 caagttcgtg ggtggatttg gcttgtgtga gtacctagcc attcgccctc taccctacca 4740
 taaattaact cagtaccttc agactcccag agaatcggct ttttctacac cataacgggc 4800
 tgcacggca tagtaatgca attctacgtc tttccctttt gcgcaaagc tttcgtgtcc 4860
 taactgcgta aagcctagcc gccgttttcc catatctacc cctgacgcct taatagcgct 4920
 tgcccgatt tttccgagaa tcttatatgg ctttaatttg tccaactacc gatcgatttt 4980
 aacttccggt ttacaatttg ttaccaattc caaggtggct agtttttttg accctatggg 5040
 tttcacagta taacccttgg gaccccggtg gctgcatctg gccatttttt cttgggtagg 5100
 ttgttttaatt t 5111

<210> 1775
 <211> 4663
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1775

aaaatataaa caggaagggg ggacacagta ataggaagcg aaaaaaattc actttataaa 60
 aataggcttt aagggtttcg ttcccccaag tacaactttg cccaaggtaa tgaaggccgc 120
 cataaaaggg ttcttttaaag ttggctcagc agccttgagg gttacacaaa aggggcaaaa 180
 ctttttagcag gcgtcctcga acggttctaa cggggaagaa agcttcaaaa gccctaagtc 240
 agatggtgca tggccaaccc ccgttttagac aaagtgggtg agtggatcac aaaaaggatt 300
 gttccagtga cttcattcta gcacctattt gcaggttcgg tatttgctgg atcttcatga 360
 acgaaaagac cgctgcaggt aatctgcac aacggaagac aactcgtgaa aatcttctgc 420
 aagccatagc cctccttgc gagcgaagaa aaatgcatga ggaccaagac ttacgtatc 480
 gtgtatctat atggttcccc gcattgccgt ccgtaacaaa gcggcgcagc cgagggtgtct 540

cgggctcccc gctcgttcat ctcagatgca tgcttggttac atggaagagt cgatcgtcta 600
 aggcgaggtg atattgagcg aggagtctat ttagttttga ttctggtact tcaatgctta 660
 tctgcggggtt gaagctttttt taaagtcaat ggaacgagct tgttgaaagt ctagaacaga 720
 ggaccttgag cattagctgc agactttcca atcctctccg ttctctgacc gatcatcata 780
 gcctctcacg catctcattt acagacaaat tgccaccaa tatgaatgtc cagaaccttg 840
 gaatttcctt gccttgctga atggttggtt gaagaataag taggtgtatg catcgtttat 900
 gatgtggcat ttagtggtga agttatactt atcgaacgga tgcataagta aataagcaag 960
 agaacaattc aagagatgca ttaaaattca atattaaatc gttgttgaga acgccttttt 1020
 ctgcagatcc cgtctatcgc gtgttcatca agataatata ataatgtgat ggtagcgcct 1080
 tttccacttg aagagtaatg taagtagaat aagcaaagca aagtctaaga cgtaaagtca 1140
 aggacaacgg gggatatagaa gggtgaatcc taagtaatga taatagatga agtcgaagag 1200
 attttattgc caattggcga gagtagtgcc agaggacat ttatgagcgt ccagaagtgt 1260
 aggtttgctt ggggaagggg tagctgtgtt attattagca tgagtgtctc taagtgtctc 1320
 tgatattcaa agagggaact cacgaaggtc ccaactcttg gatgctcaac ttcgcgagcc 1380
 actggccgag gtcgacgctc ttttcaaggg atttgcctg cacaactccg gcgacgaaac 1440
 caccggcaaa agcatcacta gagcgcgaaat cgtcagatgt gttcagcgta gccagcttga 1500
 aaacttacct agcacggttg gtgtcattaa tggcgctcct cgaaatttcg tgcacaggga 1560
 actccttgac ttcgacttca ccgctgggtg taacagtagc ggtgatgggtg ggcagagtgc 1620
 cctgggtcac aacggcaatt cgggagcggg tgggtgttctt cttgggcagc tgagccagct 1680
 ttttcgcaat ctgcacaatg tcggtggtgc cccattcgtg gctctcggcg taagcaacag 1740
 cctctgtctc gttgcagaat gtgtagtcgg ttaggggag gacactgtca agctggtcct 1800
 tgaagaactg gggaatgaag ggagcggaga gagacagcat aaagacctaa tgagtcaggc 1860
 ttgattagcg gagtctcaag ccgtaagata cggaccaggt gtttcatacc ttgttcttcg 1920
 cagcggcctc ttcacctagg gcctggatcg cggggacaca gactgtcaag tggtagccac 1980
 caacatagta gtactgggcc ttctcgacaa gcgaccagat gtgaggctgc ttgagatggg 2040
 ccaccttgta ttcgttggct gcagcaagggt gagtgcacat gctgcgggtg tggccggtaa 2100
 taatgacacc gcacttgcca gtgggctgag catcatcgac gcggtactcg gtgtggacac 2160

cagccttctt gcaggcgtcc tggaggatgt eggcgtactt gtccttaccg acacagccaa 2220
tgtagagagt cgagttatcc ggaaggatgt actatgagca attgaatcag caattgtcat 2280
atgcagatat cacaaacgaa ggcggattac ctgagcgcca cgagcagtgt tctgagcggc 2340
accaccagca atcagcttgg catcacggtg ctggagcaat tcttcgtaga ggcccatgtg 2400
cttctcttcg gcaaggatag catcggttggc tttgagtcca tacttctcga ggagagagtc 2460
gtcactatcg ccgttattag ttggggcccaa tgccaacaaa ttagcgcctt tgttcaacat 2520
acccgacagc ttggatatct gagcgaagca caagaagcat cagtaatttg ttgtgccagg 2580
caggttggga taaaaacggc ttgtccatgc aagggatcta tttacgcacc cagaaggggg 2640
ttctccaagc agaggagagg gtagccttgg ggagcagcca taactgttaa ttctccgcac 2700
cgagatttct ttttcttaaa aagaaaaaaa aagaagaaga agaagaagaa tgtgggtatag 2760
actcaaaaga gggaggaatg acaggatgag aggagagtga gagggatggc ggggagtcgc 2820
ccggcctaaa gaattactat ggagggggcag cagatgaaca cctgaaactc caggccgcaa 2880
tatttcatcc ggtgcagccg ctttgaggct tctgattggc tttggggagc accagaacat 2940
catctcagtc ggagtccgga gttgcgcatt cttctagtct tctgcctga agaagacccc 3000
ccaacaagt acgagtctct gggtccttcc catgatacat gcccaaatg tcagatcacg 3060
ctattcaagt cgcggaaacc atccagacgg catccgtcaa ccgagcgcca tccgctgccc 3120
gcgacatcaa caatccgacc tcagccccgg agaaggccgc agtcgagctt actccttctg 3180
atgctgacag cataccttcg gacctcgttg atccccatcg agcactccgg ccgatctcgc 3240
gccgacatac gtcctctccc ttacctgatt tacggttcga gcagagctat ctttcaagcc 3300
taagaggcgc ggatacatgg gggcgggtag cgtggatcac catcagagac caggtacgga 3360
cgctcttct agtccattcc caaatacttc gattggaatt gttaagcact ccaaaaaggg 3420
aaaaccatgt ctgactcaac ttacatctag gttctgttac cgcttgttca aggaacgctg 3480
tggacacttg cgctctcggg ttggcgattc tggaaccgta cagcgtcctt cagcgggcag 3540
actctgggta gcagggttag gagatggtgg tatgaggtca acaactggaa acttctcct 3600
cttatatcga agaatcccaa gacagcggcc gcgcaggtag aagacgtatg tgggtccacgc 3660
gatgttttca aggttgactg actggtttcc gcgaaggatg ctgacactga gggagtctt 3720
acagttctat actgcgcaat tttccaatgc tggcgccgat taaagccttg cttgttgtat 3780

tcaaaggact aagtgatggc catttctcgt gtttggcatt cctggcggtt aggttgcaaa 3840
 cctttgttca atttcgctca tatattaagc aatatttatt acttcggagt tcagaaggtc 3900
 ctcagaatca catttggtag acatcaaagt acagcatcct tcagcaccgc gctaactacc 3960
 cacttttagat ggtcataata aaaaatcaag catgtctatc aagaacatct ccggcctggc 4020
 actcaagtat gacagcccgt tgccattgag tttcaagatc acaagaattc cccattcaag 4080
 tcacaagctt ttctagatac tgaacactct aatcccagta caacctttat tgcgcccttg 4140
 aaaaaacagt accagaacac catttgctta gacaaagtct tgatattacc agacacttca 4200
 tgtaatgtgt aagtggcttt acccagccag aattgttaga ctgtcccatc aggttggtga 4260
 actgaaggca tcgtagtgcc aacggggcca ccaagaccct gtgtggcccc gccacttgaa 4320
 gccagaggag ctgaagtagc aggtgtttcg gcagggcggt tcttggtgtc aaggctagct 4380
 ggtgtttccg gaatggaatc ctggggcgcg ttatccactg gcgcgggctg ttgcaaacca 4440
 gttgtggccg ccttctgact atcagaggta gtttgtactt tttgttctcc agtattgtta 4500
 tcatcacctt gtttgccgtc cctgagttgg acaacaaggc tcggagggtt cccgttcac 4560
 accgattcat ctccactcac gtccctcaaaa aaatcgctt cgaaatcatt ttcgtcttcc 4620
 tcctcgccac cctgccagtc gtttccgctg gactgtgcgt cgt 4663

<210> 1776
 <211> 1651
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1776

tggccgtaac acgcgggaac cgtcctggtg tgagacggcg gaggacatcc tggttaagtgg 60
 tcgaggtatg attgaatgta gatgcaaata aagatacagc tcacatcgat ccggaaactt 120
 ctgcacagaa cagaggtgca gacaatccga gtaagcttgt ttatgaatac ttcctgcggt 180
 ggacacggca gtgacggcag ggctgagttc ttatgttggg gtgggccccg cataacatag 240
 catcatagtc ctgcgagagg ctgccctgaa cagggatcat cgcggacttg gccactcagg 300
 aataacctcc tggtttctc aggatgacct ttgccccgta gcccatgcag gaatacgacc 360
 ggacgaaccg gtgccattga ttccggaata ctgagcctga gaccaggttt ccgagactct 420
 ggttcctcac gtttcgcgcg ttccgcctgt gcatgtgcat tgattgatta ctactgggtta 480

tttatccact tcataagtga tcgctcggcg cggtaattgt tacgtagtga gacgactgac 540
 acagtccagc tgacacttcc aacattgctg cctgacattc caggaatttt aaagaataag 600
 ctattccacg tgatacaccc tgagctaate ctcaactgga aggagcgcca agagctggac 660
 agccagatcg cattcaatca cgcagcgact cggccaggct cacctgtgct ccatatcttc 720
 attgcttcac cttcgtttta ccccgggatt gcgtggactg gcttcttcgc atctctctta 780
 catcttcagg tcgcttcttg ctccagtctc cttttccgcg ttttttacct ttcccgcggg 840
 ggatctttgt ggccgcccgc atggcatccc gtgagtttct gcccgttgtt tgatccccac 900
 cactcctatt cctggcctca gctgcagttc ggttttgctc acaacaagtt acccggatca 960
 atccagtga gcaattcatt cgcaatgttc ggtcagccaa tactattgca gacgaacgag 1020
 cagtcatcca aaaagaaagt tccgccatcc gtgcgtcgtt caggaaagaa agccatgatt 1080
 cgagcattcg gttagcattc acaactatac tctactatat gcttcgcttt gaaccaatat 1140
 ctcatatgtc cggacaggag aaacaacgtc gctaagctac tttacctatt cacactcggc 1200
 gagcgtacac atttcggcca gattgaatgt ctgaaattat tagcgtctca tcggttcgcc 1260
 gacaaaaggt tgggttattt aggcacgatg ttgttgctgg acgaaaacca agaggtcttg 1320
 actctggtga cgaattcgct gaaaaagtga gtggtctctg agttcttcgt ccgctcactc 1380
 gtctgatctc ttcatattct agtgatctca accactccaa ccaatatatc gtcggtctat 1440
 ccctctgcac tttgggcaac atcgcttcgc tggagatgtc tcgtgacctg ttcaccgaag 1500
 ttgaatctct cctttccacc gccaacccct acattcggcg aaaagcagct ttgtgcgcta 1560
 tgcgcatctg tcgcaaagtt cccgatttgc aggagcactt ccttgaaaag gcaaagaact 1620
 tgttgtcggg taggaatcac ggtgtccttc t 1651

<210> 1777
 <211> 4121
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1777

ggactgccta gttttgcccc aggcacacat gtcatccaac ccggcgtctc atagcttaca 60
 gaggcgatgt tgtgtgtttt cacggccttc cacggggggc gccatgggcc atcagtcatt 120
 tttcacacaa gttccttcag ccgctggagt tcttagagat ccacgacctc tccgagacag 180

atctttccag gcacgcattg cgcaggaact gcttgagtat ttaactcata ataattttga 240
 gcttgaaatg aagcattcac ttggccaaaa tactcttcga tcgccaactc aaaaggattt 300
 caattacatc ttccaatggc tgtaccatcg aatcgacccg ggttaccggt tccaaaaggc 360
 aatggatgcg gaggtcccac caattctaaa acagctgcgc tatccatacg aaaagggtat 420
 cacgaaatcg cagatagcgg ctggttgagg tcagaattgg cctacatttt tagggatgct 480
 ccattgggtg atggaactag cacaaatgat ggatcgattc gccatgggag aatatgatga 540
 agcctgcgcg gagatgggag tggacgtctc gggagatcga atcatcttcc ggttcctcac 600
 aggcgcctac catgattggc tacaaggggg agaggaagag gatgacgatg ctgctgcgca 660
 aagggtgata cccacattg aacttatggc tcaggagttt gagaaaggca atgagaagta 720
 cgttcaggaa atgcaggttt tggatgccga aaacagggca ctacgcgatc aaattgagga 780
 gctggagaag aacgccccgg atatggctaa gcttgacaag cagttcagaa ttctcgagga 840
 cgacaagagg aaattcgaag actatattca gaacgtgcag ggcaagatcg agaagtatga 900
 gagtcggatt gctttcctgg aggacgagat cagaaagaca gagtcggagc tgcaagccgc 960
 agaagaagaa cgggcgggac ttcaagctag cgtcgatcaa caaggcctaa ccattcaaga 1020
 tatcgaccgc atgaacactg aacgtgaccg gcttcagagg agtcttgatg atgccgtcag 1080
 tcgtctggaa gagacacatg cgcgtgtgat ggccaaagag tccgaagcca gcgcgaagct 1140
 cgaggattta gaggaactcg tcaagaccta caatacgctg ggataccaga acagtctcat 1200
 cccgtcaact gccgtcaatg cgaacggaca agaatatgag ctgggcctaa atgtgaacga 1260
 gcgtagtttc tccacatcgc agattggtgg cattcctagc aggatctctc cagaagcaga 1320
 taggcttcta gccgagcctt tcaactggcta tcatccagca catctgttga acttggacct 1380
 tcgaggattt gttcgcagta atctccaggc actccgcaag gagataaacg agcggagaaa 1440
 gcgtggtatt gacgcggatc tggaaagacg gaacctgttg gacaacatta aagaggccat 1500
 ggatgagaaa cggagtgaag tcgaggccct ggaacataag cgacgcacag cggaggaaga 1560
 atttgagagg ctcaaagagg tgacaactac ccagaaactc gcctcagatg cacagattga 1620
 gaaaatggag aaggagctgg caaagatgcg agccacgatg agtgagagcg ttcagctgat 1680
 ggagcagcgc gaaatgaaca ctaacatcga gtatgaacaa ctcacactac gggcaaatgc 1740
 actccgggag gaactacata ccaacgtcga gagtatgttg aatgacgtta tccggtttaa 1800

ggtccatata caaaaagggtc tagaagacta cgagaacttt gtggtggatg aagtagaaca 1860
 agagttaggt ggcgacacgc aattggacga ggatgcccc atgtcaaccg aggaactctg 1920
 aaggccacaa gacgcaacac gatcaccttc acctacacta ctgctggact tcgctcacgt 1980
 gcttagcac accatgctcc aatacagtac atcgatcccg gctagttagg ttctccggat 2040
 gacactgatg acgtgcccc catgggtcatg aatgcggtag ttgaaatctg cgctcaactg 2100
 gttggccagc agcacttgctc tgggggttgc tattgcaatt cctccttctt gaggaactac 2160
 gggggtgctt tctttgatga gcgcccata tactgggtgc ggatacttag cacctcctga 2220
 taccggcaac atgtgatgtt aatcgggtga ttagcatctt ggtatcgttt ggcgccattt 2280
 tcttgatttt gtggacggga ctttcgtctc ttttgctcag ctttaccttt tttttttttg 2340
 gacggataca tgcttgatg gtttgcttta ggagattatg gacattatgg agagtctgat 2400
 accatttggt ctttggtttg gtgctatacg gtttcatttg gttatacata ttctaccagg 2460
 tctactggagt tcaatgtcaa tgacaacata tttccacac cacatccaca tgcccaactc 2520
 ccaggttcca cgcaagctga gtcacaaatc ttccgcgcgt actctcctaa tctactgata 2580
 agttctgtcc gagcaggccc aatcacccgc atgcttgaga tatacacccg ccacactagg 2640
 acgcagggct acgaccttg aacttacctt tctacaatag ctccgggtta tttctcacca 2700
 tattcaaggc ctagatgtta tcgggttggg agggccaaac cacgcgcctg tcttctcaac 2760
 aacgaccata taaagcgtg tgctgccggc cctccgattc ccatctatca ttctcagcag 2820
 gacctccgct ctgttctcaa gctcatttac aacttctagt ctaccgtctt tccaccaaca 2880
 tgaagtcctt gactattctg ggtgctgtct cggccctttt cctgggcagg gcaacggctc 2940
 aaataactgt tgtgcgtgca atgccagaac attcattcat gtttgtgtgt tctactgacag 3000
 atttacagac tatctctctt tttccagatc ttctaccat gtctataccg accttgactc 3060
 tccaaccag tatatctctt ccttccctcc caagcattgc gattcctacg cttcctacct 3120
 cgcttccga atctgtttgc tttgctgtcc cgactattcc aacatcgatt tcagtgccca 3180
 ctcttatggc tgccgcacct accgctgggc cagatagcaa caccacgcag gtgcttaatg 3240
 accagtttga gcggatgcac ccgcggaata ttgcaccact tggcgctga aggatctttt 3300
 gcttattttc cgaggctcaa atggtgtggt tcaatctgta ctggctccat caagcttcaa 3360
 cagcattgtg ttccgaagtt gatatgttac ttttttgctt gatttaaagt gcttgattcg 3420

ctgctcaaaa gttgaatatg agcgaatttg cactgaatgc aaggctatat tggaataata 3480
 ctgaagccga ctgcgctact tegtgaacttt tacctcaaac atgcccccttt tgaaagcgta 3540
 aggtatctac tagatgctcc ttgtattctg ttcagctgga tggagccctg cgcttctcat 3600
 gcttaccggt ctccaaccca ttgacaacct ctctaagcca tacacagata gtagacagtt 3660
 agatccatga ggcgttgagt ctttcgttat aaattttgtc ttgtcctaag aacaagatta 3720
 ccagagtgc a tactttgggt gcatctaaag ataagtgcct gaggcagaat tgtcattatt 3780
 tgaacgcagc cgattgggtc cttattttgct tactcatcgc tgcccttggga gcccaaaaaa 3840
 gccaaagaaa tcacgacttg agtaggactt tgaacttgcg tgacaagaag ccaattatta 3900
 ctgcgaaaaac tcgacccccct ccaccttcta cctcgtcaca cgagttgctt ggtcaccaga 3960
 gtaatccgtg tcctacgata tcccccttag cgagcccccc gggaatgcag tgtcaactca 4020
 attattagac atgcgcaaca gggatcact ccgacggcga caccgagatt tggatcacct 4080
 tgcgctcgcc ttattacctt ccgtcgtgtc atgacaaggt g 4121

<210> 1778
 <211> 1337
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1778

acttcctcca gccgggggga ggagcaaaaa aaaaagatgg gtcccttcag acatgccc aa 60
 aaacacgtat tgggcaaaca gtttctatat gggattgttt gcgatccacc ctatagtgtt 120
 cgtgaggggc tctcggtact tggttccagg gatactagcc gtcgtaagga ggagctcatt 180
 atcgacgggg tctcgccat cggtatgtcc tcttctaagg tctagcccac gccttgcttg 240
 ctaatctttc ccagtcgacc cggatacatc ccgccgaaga aaccctacgg cttcgaagcc 300
 atgatgaacg atatcctcat ttttgcagca cgtactctcg tcaccggtgg gcgtttatgc 360
 atgtggatgc caacatccgg cgaggaagaa gcagaactct ctgtcccgat gcaggaaaat 420
 ctggaagttc ttagcatttc cgtgcagccg ttcaacaact gtaagtatct tgatgctctg 480
 aacaatccat cactttaatg agcacagttt aatgctttcg atttcttcgt tagggtcacg 540
 acgtcttate acataccgga gactccctga gggcgatttg tccgacgtat catcggggcg 600

gcggaaggat gatgccgctg gtgtgtcggc cgatgatctg aatgctttca ggagaattgt 660
atgtccactg tttcccaactc ttactttctcc attaggggca cgtcctaacc tttcgaaagt 720
acttcatgaa aaatcccaaa agctcaagtc cggcttccca atgacatgca ctatatacat 780
agcttactca ataaacaccc aatatctgta acacctgtat cccgagatga ggccattgtc 840
gaacatgaca tctgtggagg aaaaggtagc agcaagtttc gctcatcttc taggctcaca 900
accttccctt ccttcccggt tcaaaccctt cattttcagt aaactcctcc tcaagatcca 960
accctctac tgatctaacc ctttcgacct ccttgcaat ctccatcctc agatcagcat 1020
taagtttttc cgcctcctca tcgaccagggt cttctctctt cccccggcca aacatcacia 1080
aactcatttt ggccgctgtg cccgcgcgcg ctaacggcgg tctaggcacg atgtggaagt 1140
gtacgtgcgg aacgacctga ggggccccga caccttttac atatcatcac tttagcatca 1200
gatgctcgta cggatatata ggaaaagaga agagtaccgt tattttggac cacgttccag 1260
ttccagttgg atctgtggta gtacatctgt gatctggctt tactctcaca acacngtnct 1320
catcacgctc agacaga 1337

<210> 1779
<211> 3603
<212> DNA
<213> Aspergillus nidulans
<400> 1779

tgcagagccg ctggttacga tttccactgc gcgaaggtta tatctcgagg tatttgacctg 60
ttttgcgagc gtggccatga tggctggaac ggaggccatg aaattgatgc ggtaaataatc 120
catgtagagg aggtattggt cgacattaaa ggatttcatg atgaagactt ttgcgcctag 180
gcgggccgcg ttgaggcagt agtatgtttg gccctgcaat cacttagttc tcatgcaatc 240
taaggaaggg tacaatgaaa tgggcaagaa tacataggca tgatacatag gcagcggagc 300
cagccaccga tcccccgcca tgtcgagccg ctctttgcgg ctcttgctc tatggtcatt 360
cgatataatg gctctctttg cgaggagctg agaagagttc gcgatagcat tatagtgcga 420
tatctccacg cctttgggaa gtccggttgt tctttcaacg tcagagcgat catcacttgg 480
cagagacata cacaccgct agagtagttg attattgcag tcgtctcttg agcttctttg 540
agcgtttgaa tcctcttcca tgaccaagag cgaacctcat cagcaggcct ccagatcctc 600

gtccaaggct ggactggtaa tgacgagtc tttgaaatat cttcaggatc gcagaagagg 660
 tacacccgat ccctcggtag accaactctg gatgccgcat ccagcgcaac agggacctga 720
 gtcgaacccg caaggatgag ctttgcattt gaattgcgca actgatattc gacctctgca 780
 tgatcaatac ccttgggtcat aaaacccctc agaaacactg atggacaatg tagttactca 840
 cccttaacac tcgcaccccc cgctacggcc gtaaagacac atcttctctg aagaaccccc 900
 cacaggagga ccgggaagaa gagagcattg tgcgagtaca gcagcacttt atcgtttggc 960
 tgcagaccaa ggtcttctaa cccctttgca atctgtttca cgagcacttc tgcttgcgca 1020
 aggctgaagt tcttggatgg gttggaggca tcaaagtact gcgggggtttg gcgggttgta 1080
 ggctgccccg aagaaaagac gaaggaggca acgtccgtga cgggaatggg aattcggaga 1140
 ggagacgtca gaactgtcat tattgatctg gcaactggtt tgtagatgct ggtagcttga 1200
 ataacaggag aagagtgcag gtacctaaag taaagatagg tgtgttgggg taccgaggta 1260
 gtcttctctc tacttcgtct cctcgcagtg attcggctat atgccaggaa agcttccccg 1320
 gggcgaggat ccagcttget ttcgtgattg caggtgcttg attggccatg aggttttcta 1380
 tcgaatgctt ctatcaggcg atgttttgtt gttcaatata actaaatagc cggttctaga 1440
 acacgccctg gcgattccca gccgcaattt gacgacagta acggcctttc aactatttac 1500
 aattgctctg tagaggccct cgccactggc caattcagta atatacatgg acaatttctt 1560
 tagggggtgg agagcaggct tcgtaccact tatgaaacct ttcagtagcg ttacgcttag 1620
 aagacaagcc ttaagagttt gtgtatagat caaccacgat cccaagtggg tactctttgg 1680
 tttccggaag attggaggct ttgcacacct tcaggcgcc ttgagtaatc tattatagcc 1740
 atattattgc tctagtaaaa gtacagttgc caataagtat aaccaacgct gatatgcaac 1800
 catcgacgcc attatagggt tgccaaatca aaaacaccgt taatgcaata gtctagcagt 1860
 ctcccaacct tgggaatgcc tgaatatcgt cacatatgtc aagtcttatg ttcaatctc 1920
 accggcgggg agtggacgga gtcaatcctt cccgcgact gcgacttcgg gcccttcgtc 1980
 atcttcttca tctcaaaat cttctctatc gtctgaagcc acgctctgtg tctcggttc 2040
 ctcgtacgag tccgtagcct gggagacgaa actagcccca agctcttctc cagcaatttc 2100
 gtcacgtca agttcgtac cgtcgtcgtc cagctcgccg tcatattcat tgtctacttc 2160
 ttcctcttcg tcgggttggc tttcactctc gctatctgtc gttgatattg cgtcaaaatc 2220

tcgaggaaca tccctccaat acatgaaatc ggtatattct tcaccgccag cttgaaccag 2280
 caagctgact ggaggaaaaga agtgatccac cagctcacgc atagagacat agctactctt 2340
 gtacttggtc aagcttaaaa ggggtccagct gaacctccgc gttcgagtta attgtgaaga 2400
 tcttgctgga cgggatgttc acagatcggg agctgagagc gtccgtaagc ctattgcaa 2460
 agcccgcgta gaaaggattc tctttcccgt tgaagaggcc gagaatatcc cgcaagcacg 2520
 ccatcttaaa cacttcgggc ttcctcaagt agatttccct tcgaagcgcc gccatcggtc 2580
 gatccggact catgatcgta gggcctttcg gaagcctgta tccgtcctgg caaacgccat 2640
 agatatacga gcgagtggta tctgcttgtc caacggatct actggtgaga tacatgatgt 2700
 tgtaaccgtt gttgacaatg tcggtataca acttggccac accagcgtga gtccagtctc 2760
 gaccgatcat attcagcacg tgacccaagg catccgacct ggtgagggtta gtggtatgca 2820
 gacagacagc acaacaaaaa ctcaattcgt gatggttcca tcaatatccg agatgacaat 2880
 tggggtatct ccgcgccata gatacatgtt ggccgtacac gtggctttgt tcacactgaa 2940
 ggacatgtca ttaatgccag gctttaattt cagtgccttg agctggtcgc ttgtgagccg 3000
 tagcgtcttt gcatagctgc gaaccgggtc tgctggggcg gtgttcgggg gcgattgcgg 3060
 cggcgtgggg attccgggct gcacgtcaga ttccgcgcga tgggtgcgca tctggaaaaga 3120
 cgggtcgcga agggaattgt cgctgtcact atggtagcca gggtcagaaa tcgcattctc 3180
 gtcatagcg gagccggggc gcatggcggt gagggtcgct cggcggttgg cggcctcttt 3240
 agcctcttcg ctactatata tccacaagtt tccatgctcg tccgctccaa ttagggcccc 3300
 gatatcatag ttcccttcca gttcctccgc aagaattttg cgtgccacga cttccgcacg 3360
 gagagcatcc tcttcgttac tcttgtaacc tgtcatgtcc agcatgaggt cgccgctgtc 3420
 agtaacacgg gagggatatat tcgacgtaga tagtttctgg gacaatgaca tcgcacgtga 3480
 gacagcctct tttagagaga ttggaggtgg actttgggat cgacggatga gatccggatc 3540
 ttcgtttgaa ctggctgatg caggccgctg tagctggaga ctataatcg ccgctactggt 3600
 gcg 3603

<210> 1780
 <211> 2530
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1780

tgtttctcgta cagcaggatc tgcgtaaagt acgttcgtta atactgcgag cttttactag 60
tagagctgac gcattcgatg ccgagtacta gtgttgacc aatcacactg aaaagtcagt 120
caaacgtggt tgatttagaa gcaagtccat aattcatacc atcgtggacg aacagccctc 180
gttgtgttcg atgcaatagt caccttgaca attttggcag ttccgttgac agtccaactt 240
gcatgcggcg cactgaacga ggtaataaga ccacatatat caatttggtta catcgcttac 300
cgttggtccc cactcccagc agtctttact cactccaggt ccgaaccctt cattgccagc 360
acgggggtcct ctaacagctg tctgatgagg cgacagtttg ctctcacac gttcggggcg 420
gggaagacag ctgttgcaaa accacttatt acaacgatga caccacctat cggcgaggca 480
atcggcgcaa cgagcgatca gcacaggggtg ctccacgaag acgagtgtg gccgttttgc 540
tgcagccaaa gatgacgaat gaaatggtgg tgggtgtgaga aggggaaaat gttcgggtgg 600
ggattgtccc caaatagccg ggcccttctt agaagtgtgg caaccgtcg aacccatagg 660
accagggca attgttgca tagctgggtc gagcagccgt tttccaggtt gggcatcttc 720
cgtgctgggg gatacagtgg cgcagaggtc gacatttgtt cgaggaccgc ggcagaggac 780
agcatcaaaa gcaatgattc cttcacactt ttgaagagtc tctgccaac cttctcaat 840
gcatgcttg agcagtttac cggacgagtt ataccaaacg ttttgacgt gtttttcctt 900
ttggttctgt gtgggcggca cgtcgccgag cgtgcttga ctgacgcact gtgaactcca 960
ccaatccttg tacttgctcc gaactgcagc tcgagggcga tccgtgggag tgaagtagta 1020
gatacctttg atgcgaggcg taccggcggg ccgcgtaggc cgaactgcat agttgagtac 1080
ttgcatgagt ttccgctcat tgagatgtcg acattctcga attgacagta gactcagatt 1140
gaagcgggtc gacagcacca ggtccgaaac aagatcagct ggaacgggca ggccatctaa 1200
aataagcgtc cgtacatcgc tcatgatcga gcttcgctcc aaattggcaa agatgcctct 1260
gagaggccca gagtagaatt catcttcagt cagtgattcg tctatgcgt cggtccgcca 1320
cgtctgacca ccacggtcaa tggggggctg atcagtcaac cgagcgcctc gacaatgaga 1380
caaatcaagg tgtcggaaca catatggcgt ctccatgatt agcgagcgca caaagcgca 1440
agttgccgac agggccagga gagtacctgg agtgagatat ggcaccaagt gatcgaggat 1500
caagccattc cctaaaacat cttcgatcga ggttggttt cgctctacca ccggttcagg 1560

ccgctctttg acagtttctt cctcatcact gagctcaatt tcgcaacga ccggaacaag 1620
 cccaattcc ttgggggtca agcggcgggc gccatagaag aagtcaggag caaagctaatt 1680
 gagattctgt cggtaagcgg ccacggctcc aacagccagt tctcggccac gattaatcat 1740
 taaaccggca tttggttgga tctcctgtag agcagctctg gctttgacga gctcggtttc 1800
 gagaagggtg atggtggatt gaagaacagc agacatgttc tttttgttgt cgggatcgat 1860
 gctagtgacc aagacagacc acagtgttc tgacatgcta ctaatgtatc aggttagaaa 1920
 gcaacaacgg atctcaaaaa gagtggcaaa ttccgggtccg cgatttgttt ggttgggaaa 1980
 tccgtggagc gctccacgga atattgtgcc ctagtcgaga aatatatatt gctgctgtaa 2040
 accgggtggt ggattcagac gtcgaacgga gtcgtttgtc gaaatgataa actggggata 2100
 atagtaatga gtggaataa gcggggaagt acgaagtata aagacccgat atggggagag 2160
 aaaaagctac tacggaatag gaagacgacg gagttgggaa gaataaacct aaggatcagg 2220
 ggctgccgaa agcttcaccg gacgacaagt cgggtattac tccgtatatg aaaggatcct 2280
 atttatccgt atgatgtcct ttttaagata tgtgataatc ccatccgcaa aagtactccc 2340
 tacaacgtag aggctgcaaa aagcaagcca acttggcaca gtagtggaat tttactgcat 2400
 aatcacgact gtggaagggtg atacagcagc cttctagcca attcaagcac tgcatacttc 2460
 ctcggtgttc ggagtacaaa tctgtactct gtacagtggg gtagaaggcg aggtggaaaag 2520
 agagtatggg 2530

<210> 1781
 <211> 2339
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1781

gccttccatg gcaaaaatat gtacctcagc cttatcaaag acaaccttat gggaaaaaact 60
 taatttaggc gccagattca acctctgggc ccctatctta ttatgaaaat tttcatccac 120
 aacattgccg cgagtgtttt ttgtgcttaa acaacggtaa aggcaggaat cctagattga 180
 tatcagctca caagttctga ctccggctaa atccttgtcg gccagaatca ccgaccccg 240
 ttcaataaaa attgtttctc ggccggaacg tgctttaagt tagatcctca atagcctcac 300
 tccgttcccg gttccggtaa tcaccgcgcc agaataagct agcgctatcc ccaggatttg 360

tcgattaaag atgggcccag atccgggtct tgctcaggaa ccgggttggt ggcataatac 420
 ccgaataatc tatacttctc ttggttcgac ggagcttgag gcggaaattg cggggatacg 480
 tagctacata taatagtcct aatactgttc cacaccgttc aagtaatttc cttgtccatt 540
 gactatatag accaactccc ttagtcatga ggctcattca cgctgtgctt ggtcttcttg 600
 ccggtgcggc tcccgcctt gttgcagcca gcccgcagc gccaatcggc aatggccgag 660
 accaggtatc taaagcagta ggccgacact ttgagattga cggcaaagtg cagtactttg 720
 cgggtacgaa ctgctggtgg ttgggcaatt tgctcaatga tttcgaggtc gagcttgctg 780
 tctctcagat tgccgaagta cgctccaac atgacggata tcggatcgag tactgatgat 840
 ggcagaccgg gtataaagtc gtccgaacct ggggcttctt cggcgtcaac gatccatcca 900
 accccggcca gcctgtctac taccaggctc tgaatgaaag cttgtacgag ggtggcttgg 960
 ggatcaacta cgggtctaat ggtctgtctt tcatactcct tcgttcacct gcaatcaagc 1020
 gcagccctaa cagacatctg aacgcaggca tccgccgct cgacaccgtg gtctccctcg 1080
 ctgagagata cgacatccag ctagtcctga cattcatgaa caactggaac gactttggcg 1140
 gaataaacat ctatagcaac gcattcggca gcaacgcgac tacctggtac acagacaaga 1200
 aaagccaaag ggcataccgc gagtacatca aatttatcgt caatcggtag aagggctctt 1260
 ccgcgatttt cgcgtgggaa ctaggcaatg agccccgctg caaggggtgt gatccatccg 1320
 tcatatacaa ttgggccaag agcgtcagcg catacatcaa gaaattagac aagaagcata 1380
 tggttgcact cggagacgag ggctggctct gtccgcccga gggagacggg acctatgcgt 1440
 acgattgctc agagggagtc gactttgtga agaacctga gatcgagacg ctcgactacg 1500
 gaaccttcca cctctacccg gaatcctggg gttacaacta cagctggggc agcgagtggg 1560
 tgctgcagca cgacgccatc gggaagaggt tcaacaagcc cgtcgtcttc gaggaatatg 1620
 ggactccgct caaccatacg cagctcgagc ggccgtggca gctgacaacg gtcaaagaga 1680
 cgcaggtggc ggcagacttt atctggcagt ttgggactgt gctgccggtg gagggaacgg 1740
 agtggggaga tgtcaattcc atctactatg gaacggaaga gtacgaggtt ttggccgtcc 1800
 agcatgcgtg ggagatggcc aggaagaagg tgccgcggca ctagagctag tgataacagg 1860
 gtacttgcta tctaataaaa gacacatctc agccattatt agagttcaat aagtggaaaag 1920
 gaaaagtttt tcgcaagcag atcgcttcgg gtaagccgtg gttatagtat ttcggcgact 1980

tcagcttgca atttttaaate aactcccate gccattccc tgccgccaga gacgcttagt 2040
 agcaggcatt ggacgcagag tacgatgcca atggacatga gcggcgcatg tcgataactg 2100
 agttttcctt ggatggtcag ccccgaaacac taacctttgg gaaccacgtt ggctctaaag 2160
 atatggacaa ccgtccaatt tagcaacgtt cagtcgcagg ctttgagcca acggcgtgag 2220
 aggccgttat ctttttgacg gcctggagaa tcgagcttta ccgactgcac gagaccgcat 2280
 ctggctcttg ttcttgattg cagtccagtt cgcattcgtt gaaaccggat ccaatagtg 2339

<210> 1782
 <211> 2078
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 1782

tggtcaagta acagtacatg catcagctcc tccgctcgtg gcgttcgcca gttcttagcg 60
 atcgaggcgc cggttctcgc tcagagcatt gacaatagcg cgcattcgtt ccttcgctgg 120
 gattatctca ttggctcgac ggggtgttctg atttgggctt tgagcttgta ccgggctggc 180
 caccgtcttt gtgtacggcc cagggtggggg gcgtcgggct cgtgttcaag gtcgctgcgt 240
 tgacgatttt gactgggcca gtcggagcgg ctgttgagtt gatatgggag agagatgagt 300
 tggatttcaa tgagttgggg ggcgtgaaaa gagcggcccc agtgggtaag aagcttgctg 360
 aattgcaaat cggctctgtt agtctgctcg aggcgacgga atgtgtcgca tcgaaatatg 420
 tgtcaggtgg tgagacagca atgtgtggca caacctatac aaatgtcttc tgtatgtagg 480
 caagcgagat ctcaacaaat ttgggtcgcc acttccattg atgatctgtc agtcataac 540
 tagagcattt tccatttcac tcatttcta atacaattaa cagatcctgt tcacctaccg 600
 tctttcacta tatacgcaac atgtcagacg tccttagcag ttgagtctca ctcttagctg 660
 tcatccttag gaggtagtat cttttctttt ttatgcgaaa ttctcaggtt tatggaggaa 720
 tggctgaaac gcacgaggag atcgaaactac ttggtcactt cacctcttgc ttgctgaaca 780
 cagcctatta gaacggtgca agatagagga cgtctgttga taaaagacag aaagagagag 840
 ttctggggta ggaggagact gtgagttgag actagtatct tgacgccagc gcacaggctt 900
 gaatatcccc agccgactga agagtccgcc cgctaaaata ataaggatat gaggtactac 960
 caagcagtaa tgctttctcc cgtcgggttt tccctaatag gggttttcgat caggggattg 1020

ccggtacggt ggcctatgca gcagtatctc acataatgcc cgtccggaac tgtccagctc 1080
 ctccaatgaa acgttcttcg aagaattgct gcgtgaacgc actttgaccc attctccttc 1140
 tccagaacaa ccccaaaactc cgtgatectc ttgcgataac aagtacggcg agcgcatgga 1200
 ggcacattgc cttcgaactt gacctgaccc agcttatgta ccgttgacca agaaaacaac 1260
 acaatgccga catcacttga ccaaatttac ccagctttct gctcgtttat gccccgagtg 1320
 ggcactacat cgacagggtg tgaccagcag tttttatgtc gtcttgtctg ttcttaactt 1380
 gtacttgagt tttttttttt aattttttta ttcttctttt ttttttttat ttttatgctt 1440
 tttatttctt catttctttc tctctttatt ttctattttt cattgttttc tctttattt 1500
 ttttttcat acttattttc ttattttcct ttcttttaa tgtacaattt tgtttctttc 1560
 ttcttttttt tatctttact ttatctttta cttattcttt tcttcttctt ctctatcttt 1620
 ttatatttct taattttcta tttttgtttc ttattatttt tttctttttt tttctatttt 1680
 tttctattca acctctctct tctctctatt cttttttatt ttccacatta tctttttttt 1740
 tcttcatctt ttaattatta taaaccatt tatttttttt taatttattt ttttatttta 1800
 tttttctctc ttattttttt tttttttttt actatattta ttttttcctt tttccttatt 1860
 aacttattat taatcatttt atctattctt tctattatat ttcatttttt tttttatttt 1920
 tatcatttat catatattct ccttctatat cttttctatt tccatttaat ctttttctct 1980
 ctttttcatc ttttaccatt taactctatt ctctctctct tttttncacc ctctcctttc 2040
 ctctctctct cattattcct actatttttt ttttatat 2078

<210> 1783
 <211> 4341
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1783

cgacgtggtg gagagcgtca agagcggcac ttgcaagacg atagcagacg ttaagtcatt 60
 caccaaggca ggaacggggt gtggtggctg tatgcctcta gtgcagtcca tcttcaacaa 120
 aaccatgctg gacatgggtc aagaagtctc aaacaaccgt atgtgcttcg gcccagtttc 180
 tgttttatcg ctaattttgt gcagtgtgtg tccatattcc ataactcgcg gcggaacctt 240
 acaatgtcat agctatccgt caattaagaa cttttgacga tgtgatgaag tcggctggaa 300

agtgcccaga ctcgctagga tgtgagatct gtaagccggc aattgCGTct atcctctcca 360
 gtctcttcaa cccccacctt atggacaaag aatatcagca acttcaagag accaacgata 420
 gattcctcgc caacattcag agaaatggga ctttctcggg tgtccctcga gttcctggag 480
 gtgaaatcac agccgacaag ttgattgcaa ttgggcagggt agccaagaaa tacaatcttt 540
 actgcaagat cacagggtggg cagcgtatcg atatgtttgg tgccaggaag caggatctac 600
 tcgatatttg gactgagctc gtcgatgccg gtatggagag tggccatgcg tacgccaagt 660
 cactccgaac tgttaagggtg agattttattc ttaagtcaat gcaaaccgag ttaacggaat 720
 tcagagttgt gttggaacaa cctgggtgccg attcggcgctc ggagacagcg ttggaatggc 780
 tatccgcttg gagcaacggg ataagagtat ccgagctcca cacaagttca aggggtgctgt 840
 ctctggctgt gtccgagagt gtgccgaagc tcaaaacaag gagtgagtaa cgtatcactt 900
 tttggtaaaa gcgccgttaa cgtgaatagc tttggtctta ttgctaccga gaagggattc 960
 aatatcttcg ttggtggcaa cggagggtgcc aaaccccgctc attcagagtt acttgccaag 1020
 gatgtaccac ctgaggagggt gattccgata ctggatcgct acgtgatctt ctacatcaga 1080
 actgcagaca aactccagcg aacggcgaga tggctcgaga gccttcggg cggcattgaa 1140
 tacctcaagg acgttgttct caatgataaa cttggaatag cagcagagat ggagcgtcaa 1200
 atgcaggagc tggttgacag ctacttctgc gaatggaccg agacagtcag aaatcccaaa 1260
 cgtcgcaagt acttccaaca attcgccaac actgacgaga cggctcgagaa cgtggaaatt 1320
 gttaaggagc gcgagcaagt gcgcccgaact tactggccca aggacggagc caacgaagac 1380
 ttcaagggtc accaatgggtc cagcctctcg tggcagccag ttatcaaggc tgactacttc 1440
 tccgacggcc caccgcaat ctcgtccgcc aatatcaagc gcggtgatac ccaattggcc 1500
 attttcaagg tcaagggcaa gtactacgct acacaacaaa tgtgccctca caagcgaacc 1560
 tttgtcttgt ccgacggtct gattggcgac gacgacaacg gcaaatactg ggtatcgtgt 1620
 ccgtaccaca agcggaaactt cgaactcaac ggcgagcagg ctggccgttg ccaaaacgat 1680
 gaggcgatga atattgccac attcccagtt gaggagcggg aagatggctg gatttacatg 1740
 aaacttccac cagttgagga gctggattcc gttcttggtg cggaaaagtg gaagggtgaag 1800
 aagggtgaag ctgtggaccc gtttgaggcg tatgacaaga agtacagcgg gatgaaaggg 1860
 aagagagccg gcgccaaggg aattgagggc agcaagccca ctcggtctcc ttcaaacaca 1920

atagactggt agactgacga ggatacgttt tgcgatgtga tattagtatg gtggacatgc 1980
 ttattgggtt gcatggcggt tttctattca ggcgggttcta tgcattatac ctagtgttaa 2040
 acaatctatg attatactat actcgaatcg gtaacagtcc atagaacgct gcctacataa 2100
 gttgaattgc ctgcgcacat aaatgcttct ctgtacaatg cagagtacgg agtagggcct 2160
 gatatgggtg atgcctgagg ccaaaacact cgatgattaa actctacttg attggccggt 2220
 gaggttgta tctcttcgac gcagccagac ccattttccc tccgcaatcc tccatctgcc 2280
 ccgataacac tattaanaag ggcccattta cctcttaaga tctccgcgga gccaatcaa 2340
 ctctgggttt tgatttctgg cctcagagac taccgtcatc atcatggcac aaaaaacgg 2400
 caccggaacg gtccccgtgg agccgtcagc acatacttgc agtcgacgaa caacaaacag 2460
 ttcaacactt gaacttacag ttccgaggag atcgtggaca tttttgtcat tcttcatgca 2520
 gtgacatcca gatatacggt aaagttgcac ggaggttgct ttttactgcg tcttcaacgc 2580
 ccacatggac gagtctcgac ccataacagc cagttccgtt tggttccagg ttctaaatac 2640
 ccgcgagatc tgtactgca aaaggctgga ttgccttacc ggaaggctaa aactctgtgc 2700
 gagatgtaga tccggtctgt gggatcatata cttttcttat ctcgatgtcg ttgatagcgg 2760
 tcagctccat cctcagccac accacatcca cgctgacggc cttgactcct ccgctgccta 2820
 ttagcctgcg gaatatgagg catggctttg aactccac gggccagcgc tcccatgaag 2880
 ctactgagt gggtgaggac caacaccgtt tgaaggcagc cttgcctatt tgggtctgatt 2940
 aatctcgagg ctttctcggt aaaaatacca aagagacatc actcgggttg ccatttctaa 3000
 tcgtgatcgg gtccgggacc ctgatagatt actgcctgat tgttcttggt ctggctcccg 3060
 agtgccttag ccctgacgac atgctgatat cccggggaga tacatgacac ttctttttca 3120
 gtcagacatg agttgtttct gattgacgat tgtgcctggt gtttatatag caggcccgtc 3180
 tctcattgat ctggctatat cccaggataa caatcaagca attgtctagc ctatttgata 3240
 tctttctacg aactgcagtt ccctttcttc taatatcatt cgtcttattg gttaaaacca 3300
 tatatatcct cgaggatatag aatagcacgg ccgatccgtt cttctacaag tcgagtttag 3360
 atccaacttc atccttattc aaccagatca ggcgaagtcg ttgaagagat ggacttcgcc 3420
 aagctgctgg tagcctctcc tgaggatcaac cctaacaaca gaaaggccct cactattcca 3480
 gtccatgaacc cattcaacac atatggccga gtcttcttct tctcatgggt tggcttcatt 3540

cttgcattcc tctcatggta tgccttcccg cctctggtga gtctcttctt ccgacaaccg 3600
 gactgaagga atcctaacag tgaagccagt tgactgtcac tatccgcgat gatctcgaca 3660
 tgtcccaaac acaaattgca aactcaaaca tcattgcttt actagctacg taagttccct 3720
 gcatgcaagg acaagacgca gagccagccc taaccctata tcagactact agttcgactt 3780
 atctgcggcc ccctatgcga tcgtttcgga cctcgactag tctttatcgg cctactgctg 3840
 gtgggctcca ttctaccgc gatggccggc ctcgttacct caccccaagg actgattgcc 3900
 ctgcgcttct tcatcggcgt cctcgggcgc acattcgttc cctgccaagt ctggtgcaca 3960
 gggttttttg acaagagtat agttgggaca gccaaactccc tagctgccgg tctaggtaac 4020
 gctggtggcg gtatcacata cttcgtcatg cgggccatct tcgactccct catccgtgac 4080
 caaggcctcc ccgcacacaa ggccctggcg gtcgcctaca tcgtccctt tatcttaatc 4140
 gttgccgcg ccctaggtat gctcttcaact tgcgatgaca ccccgactgg aaaatgggcc 4200
 gagcggcaca tctggatgaa ggaggatacc cagacagcat ctaaaggcaa cattgtcgac 4260
 cttagctctg gtgcacagtc ctcctgccc accggacccc cttccattat tgcgtacgcc 4320
 attcccgacg tcgaaaagaa a 4341

<210> 1784
 <211> 4903
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1784

acacgggacc ggataataga ccagcgtaat cctctgagcc gatactgtaa ccaccctac 60
 gccagtagtt gaaggtcagg cgcacctgga taaattagaa ctcagttgag actggtagag 120
 acgataaaac atacgctcca tatgacggag atagctgcga tagtatccaa gttgagagta 180
 cgaaggccgg aaaggcgtgc ccaaacagca aaatgaacgt tgaatacga cgggaggata 240
 gaccagaagc gatcgacctg agagtagttg cggttgatct cagagaagac gatgaagaga 300
 acagagagga agatagtaaa tgcaagcgcg gtcgcaagcg gattggtgga aagatagatg 360
 tccttaagag catttacatc ttttgctgca atcgcaggct ggagacgttc agggagcgca 420
 gccacttgcg acagaaatgg tcgcacggca tggttgaacg aaacgcagtc tgccagagac 480
 tcgacgtcag gaagtggaag cgtcatggtt gttgacgaag cagaagcagg agcagaagca 540

gaagcggaag caagaacagc aggcacccga ctgcgaaata gattttccca catagaggag 600
 ataagatact tggttaatcg attataagga tatagacgca gataaagggg ggaatacgtt 660
 catgaaatca caacaaacaa ggccgagtc cactaaagag ctttaagcggg gtgcgctaata 720
 ccgcattagg tagtaagctg tcaagtgtcg agtcccgtga ccggtgtcgt tttcgcgttt 780
 gctcgcgaac tgaagatcaa tttgccata atacctatag acaaccccag actgtcgtag 840
 ggggagcatg gtggaaatga ttcttagctc atcaacttct actgctcata gtgtgatttg 900
 cctggctgac tgtcatggcg ggcaccaaag tcttgtgcgt ggctgagaag cctgcaatcg 960
 ccaaagctgt cgcacagcac ctatctggag gtcgtatgga aactgtaagc gaatgaccta 1020
 acttgctgaa tgtgaactga aaatggaata gaaaaatgtc actggaaatc gatttgtgaa 1080
 gaactacgta tttgatttca atttcgggaa tcaatgggga aacagttctg tcacgatgac 1140
 cagcgtctta ggacacttga caagcttggga atttgagcgc cagtacagtg gttgggcatc 1200
 ttgccctcct gcagctctgt ttgaagctcc cgtcaagatt gctgtcgacg acgtaggtta 1260
 agccgatgtc tgtccatcag ccgtctttgc taagtcctaa ttgcaggata aaaaggcaat 1320
 cgcaaacaac atcatgaagc aggcgacgca tagtcagtac ctggtcattt ggaccgattg 1380
 tgaccgggag ggagagcata ttgggacgga ggtacgcgat caggcgaagg cgggcaatgg 1440
 acgaatcgtc gtcaagcgag ccaagttcaa caatactgag aagatgtagg tagatgcacc 1500
 acccctttca tgtgtgcttc gttaaccgat ttaagccacg ttctgaatgc tgcgaggtct 1560
 ct cattgaac ttgatgagcg gcaagccaac gcagtggcgg cgaggataga gctcgatctt 1620
 aggattgggg ctgcgttcac tcggctgtc acactccagc tacaaaatct tcatgccacc 1680
 ctgacacaga aggttatcag ttatggtatg ccacgccgtc cattttgaaa cgcgctccca 1740
 tctgacagac tactatccaa taaggatcct gccagtttcc gaccttggga tttgtggttg 1800
 atagatatct acgagtgaag cgattcaagc ctgaaacttt ctggggaatt aaggtcatgc 1860
 aactagggga tggatatcaa gtgagctttc tctggaatag agtccacctt ttcgacagag 1920
 ccgctgtcac tattatgctg gagcgtgtc tgatggcaac aaaggcggag gtcacaaagg 1980
 tgaatcagaa gccgacaagc aagtggaggc cttaccatt gacaacagtg gacttgcaaa 2040
 tgatgggaac aaaatatttg cgcattggaca gtgcaaaggc catgaaggta aatgctctat 2100
 cacgtaaaat gctaatatgg tgactaatgg aacctagatt gcagaaaatc tgtacactaa 2160

aggatttata agctacccac gaacagagac cgatcagttt gacaaaggaa tcgacctgaa 2220
 gaagcttatac gagaaacaac tacctgatga gagatgggga gaggtagctc gctgggtgtgt 2280
 tgctcactct ctaagctcta tcaactacta aactgcatta ctagtctcct cggcgggaat 2340
 ttcagaactc ctagggctgg gaggcacaat gaccaagcac atccaccaat ccatcccgtc 2400
 tgctgggtta accccaccac actgactgaa gatgaaagaa aggtgtacga gtttgttacc 2460
 cgacggttcc tcgcctgttg ctcagacgac gcaaaggac aatcaaccga cgtcgagata 2520
 cgttacggag atgagatgtt ccacgctcac ggactcctag tcttagaaag gaactacctg 2580
 gacgtctacg tctacgacaa gtgggagagt acccaacaac tacctaacta tcaagtcggc 2640
 gagctattcg aacctacaga agcgaacatg ttcgatggaa agacctcgcc gccaaactac 2700
 ttaacagaac ccgagcttat cggactcatg gacgctaatt gtattggtac tgacgccacg 2760
 atggccgagc atatcgaaag gataaagagt cgtgaatata ttggcgaaat gacccgagga 2820
 agcggccgaa acgcggtgaa attactcatt cctactcgtt tgggtattgc cttgatacta 2880
 ggctatgaag atgttttcgc tgggctcgca gacagccctt ccctcagcaa gccttttttg 2940
 cggaacacaga tggagctgga aatgcgggac gtctgtgctg gcacgagggt acgaacacat 3000
 gttgtccagc aaaatctgga tatgtaccgg gagttgttca ttcacactca aaggcggatg 3060
 aatatgctga aggctgcatt tcggaaatac attgtcgaag gagaggatgt gtgaagtcta 3120
 ccattcgtct ccgatcgact gacgcccttc taggactggg tcatagtcct tgcggaagtc 3180
 cattgagcct acagtccttg ctgtggacat atacacttaa ctgccagaaa tctgactaat 3240
 tcagatttct caattgaata taagcatgcc tttgggggat attctgctga agcctacgct 3300
 gttctatgag gaaagaatgg gttcttcaag ctttcgagta tgtctgctta aacaaattct 3360
 tctttcgcaa aagaccttgg atcatgtggc tgctagatga agattcttac actacacaaa 3420
 ataattagga acatccattc ctcgagatac taccacatcc aacatcgac gtcctgcgc 3480
 cgcgccgttt aaatcgtgcg taatagctc cttcatcaat gtccatgcac attttggatg 3540
 agataacttc aatatttctt cttcccattt ctggggattg gcaattcgct gttggctgct 3600
 gagctcgata ttgccttgtg catgagctgg atttcagact tattgacctt gggagggcat 3660
 gcttgccggg cttgacaatg ctctcttgtg tatatgggag agatagaaca accctgctga 3720
 agatgactta tactaaacta ttttctcttc cattgctctc cagtcaatct gaatgctctt 3780

tcgcaaagta gtaggaccta gcgtagtttg cggattagca agctcatttt aagtattctc 3840
 tatatcagat agactcagca caagaccatg cttgcgtgag accttgtcag caactgagac 3900
 ttatttcggt tgactcgagt ttacgcttc ttcacagcc ctctgcctc tggctcatt 3960
 cggccgcatg aaataaaact cactctctcg ttgccactga ttgatggatt ctatcctgga 4020
 actgaaccta ttcaactggt gttgaatctg ctgcgcggt ttctcaagag taccgcaatt 4080
 tttcttcagc ccgtcgacag atatttgag ttgctctatc cgctcatcga taatggcctt 4140
 caccatggcg gcttccccctt cttgcatacc cttgggttga ccgaaggctt cgttcaagac 4200
 gagtatgttc actgctttga ctagggcaaa gaatcttttg acagggttga gagatattgt 4260
 gataaatggg ctgaagactt tcttaatcgg ataaataacc ttcttgacga ctgggtcgaa 4320
 tgtttgctga actgaaacga agcttccttt gactgggatg agactcttat cagctatggg 4380
 actgagcaat atcttgaccg aagcaaggac cttcttgact ggaccgattt tcttttcctc 4440
 aacactctga cgaacctgcg tatcgatagc catccaccgt gccaaccaaa cccacaatac 4500
 taaaccaaact actcccaaca cgacgaaaag cataactgcg tacgtctggt cagagaaaga 4560
 ttccagaccg tcttgagaga acttcgcgga aactgaagtt gtcgagttcg gtaaaacatc 4620
 ttccagagac acgatagacg agtttctgaa cccgcctgcg gacgacctat ctttctcgta 4680
 gggcaagcgt gagttggtgg aggaagacgc actactccaa gggagctttg acagagagga 4740
 ccaggctgag gccacaacgt ggtggttgac cctggggacc ggtccgcctg gccagatgaa 4800
 gtaggcagcc gagactccga tgagtacttg ggctgagaat gtgggattca tggctgatct 4860
 tagagtattt aagcaggaat gattgtagtg caatgagtct gtt 4903

<210> 1785
 <211> 4456
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1785

cgatccaggt ccacgtcgtc gttgttgctc gggctagggc actgtttgtc gggactaggg 60
 tgaggcttga gcagaccatg ggctgcctaa ctcaactggt agtctgctaa gtcagacaca 120
 catagagttt gctgaacggg gctgactgaa acaacgtcgt attggtctgt atctgacttc 180
 agaatgctat cagtctgtac gctgtactag atcacttggt cttccggcct tccagacccc 240

ccagcacgtc tgccgcactg tccttattec cctttctctt cttgggacca cgcttcctct 300
tggtcccgcc tcgctctgat tctaggacta tcccctcgtc atcctcgtea tcctcaatcc 360
tactgcctcc aaaaccgtag tccaagtcca tggcgtcgag cgcttcgcgg cgctgcgctt 420
cctcaaggaa cctcttacgt cggaggagcg tttctttgtc cacgccttct tcgtcgtcgg 480
caatgtgatc cgacccctca gcagcttgtc gtaaggcagc ggccctcttg agcgcgga 540
ggatggtcgg gtccttggtt agcgggttgg tgcgatgacg gtcactctcc acttgctctg 600
cttccttccc tgtactgcc gttgcgaaat agttccgagg tcttgccggc tctgttctgg 660
ccgcctccat ggttggttct tccgttgtct tttccttccc gagttcctgc cgtgacttca 720
cttcagctgc cacgtcgctt tcttctcat ccgattcgga tgaatcctct gaccgcac 780
cgcccagagg attgtagtca gcacccacgc cttcgaagat atcatcgtct tcttcttccg 840
cagtctgggc ggctttgatc ttggcgga cgtcggccgg cacttcatt cctagagggt 900
ttggcttggg ttccttctcc ttctccgaga cgggatcgcc agcgggtggc gtggctgtgg 960
caggcgccgt ggtccccgt ttatccagcc atctggtttt cctcttcgtc ttgccatccg 1020
cgtccgtaat caggaggact tcccttcgcc ggccgttctc gtctgctcg atgaaccgt 1080
tcttctctgg cttcgatatc ccaatcttct tgaaccgcgc accgagaacg gattctggcg 1140
cttgggcagc tgcaggggca gaagcagccg cctgctcgc tttcagttct cgtagaatct 1200
catcgcgct ctttctctga gtttgagtag gcgctggcg cggcgcata tttcccttt 1260
tcttctcctt tcctttcggc gcagacggca gggattcacc ccccttttgc tcgagcactt 1320
tatcaaactc ctcatccag tctacctctt tctcgggctc atcatcagca gctgctctc 1380
cgtctccctc ttcateccct ttctccttcg tccgctcaac atcctctccg gctttgatcc 1440
tcctcagcaa atcccaatcc aacccttaa ccatatgct actgctcaag tccctccaa 1500
cccaagctc cctgcgtgac ctcgtaagcg tctctcatc aataagacc tccttgaact 1560
tctcttccag tcctttcaac tccgcctcgc gctcagcaga tttggcgctc tcgctctcgc 1620
gtagtcgctc cgcggcggcg tcttcatacc caactgtag cttcgttccc ttgggagcag 1680
cggaagactt gaactttttg ttcgggtgtg gcttcccgct gcgctcgct cggtattcgg 1740
ctagctgcta tgcgaagtta ggggctgtca gagtgcgtct agacagaaca aaatcaaaag 1800
atcagctctt ggatgtcaca ataaggacaa tagatattaa gcgtgtgaaa acatacgggtg 1860

tcatagggat gctcgcgcgc atccgcgcgc ccagcaatgc ctgcgcctggt ttcgggtgtct 1920
 gtccaccgct atcgctccca ccttgccgtg aagcagcgcc atgttttctt gcatgcgaga 1980
 agccggtegg actcgcgccta gttgatttgg atgatcggtt attgtcgaga agtagccggc 2040
 ggaattgctc gttgttcatg gtggaaaggt gagtggtgca gatgcgggca gattaggcgt 2100
 tgaggagttt gagctatata cgtggtagat attgaccga tggagctagt tcacgtgtac 2160
 attgcgagga tgatgcttgg acgcaaattt gtagagtaga taggagggtt atgctgcagc 2220
 tggcaggaac caaatttgcg gaggccgaga ggtaccttag aaagcggcga cgtcagtgtc 2280
 gcatteggcc gtagaagcgc actaacttct gaaagctaca agtataaatc gatacaaaa 2340
 taatcccgt acaagtaaac cccaagttt tagttcatcg attgtatggt attgtgtaat 2400
 gttccagtat ttcagttctt ctactttaaa tttttagagg cgaaagccgg caattgttgg 2460
 ttgattatgg acatatagct caaaccagga acttgagtca tcttgccgca tgggataaat 2520
 acaatcaaat gcaaatccca atagacagct gcagaaaccg tacacctaaa ctatgactct 2580
 tttgcgcgca acagcagcag gaatgagcaa ataaaccaat actattcaga aagcaaaggt 2640
 tgccagaaga agatacaagg tagaaaaaga ttccgtctaa ttttgacaag ccattcgtcg 2700
 tctcgttcc tcccatccac gtatactcat gcacaaataa cgatagatga tgaagagggg 2760
 tcagatagtc tcaaaccctc cattattgat gtcagcctcc atcctgcgac tgatggtcgc 2820
 cggaacacta tgcgacaacc agacgtcgcg aagaagccga tcgtagcggt tctgggttag 2880
 catgagcggc ctgttgccgc ggagacccat gtcaacttcg ccgtggcggg cgaggtaggg 2940
 ggcgttgtgc cacgagccgc tctggttgtg gagatagagg acggcgcatt tacggatgtt 3000
 gatgaagagg ccgatgtttt tgccgcacct gaagacgaag ggtagtaag ctaattaggt 3060
 tactagagta gggcgaaaac agaatgcact ggagtttatg acttacttca caacatgctg 3120
 gttgcacccg ccccatctgg tgttgcctat ctggcaacaa acggcctggg agcaaaagat 3180
 gtctccacag aagaggcaga tgcctggatc ggtgagctcc ttctttgaat ttgggcaccg 3240
 gcgccggttg gcgagctcaa tcaagctgtc gaagtacttg ggtaggccga ctagttcgaa 3300
 gatggctggg tgcgaaaggc taggccatag tttgtgtct ccgatacgaa cgccagcacg 3360
 agatgcgttc cagtggaaga tccagcctga gatcatggcg tcgaggggct taccgctctt 3420
 gcgagcaggc ttcactgaag caaatatttc gtcaagagaa ggcatattca gaatcttggg 3480

taagcgatcc agctctgacg cgcccacgtc gccgaagcct gtgctgggga actcgacgcc 3540
 atgttgacaca tgaagtaaaa tgaccgcttt tcgcaggaag gttagggcgt agcttgatat 3600
 gaggcggtgt agagcaatga tcacgccggg ggttgctgaa tcctcgccct ctttgacata 3660
 gcctagttca gttggatgcg aagaccctat tcctctgcct acggagtttg ctttgagctc 3720
 cgagaccaca gtgttgaaga actgccgagt gacctcaaac cgttcgtcag aaagttccat 3780
 atctaacaag taatgcgcat caccattctg ggccagctct tcctttagtc ctatgggcca 3840
 gacaatgtac gtggtggcaa ccttgacaat ctcagcgaca tagcacatct gcaccaagtg 3900
 gcggacatca atatccagga caggaagaag ggcaagtga cttcggcaa gaaacacgaa 3960
 cgtgtccttc gcgaatagt gctcgatttg gtggacatca gcgaggagt atgtaccttc 4020
 aaagaatgga tggcccacaa acagctggca tagcttctgg tgatgcatct cacggaactc 4080
 ttccaggac cgactttggt ttccgccttt gctctgtaa ccaccgactg atgcgtatgt 4140
 caatgcagtt tcagccagga cacgaaggtg cgtcaacggt aattggggta ttttgtcaag 4200
 gagcgtgcag cctggctcgg attcaacacc acgttgagcg atttcaaccg cagcaatact 4260
 gaagccgaag ctctggaata aagagtctgt gtgaataata tcatcattgc ccagagtctc 4320
 tggcggatgg ctaaaggttg aatagatctg attcagccga agggctctgct tcagccgtgc 4380
 gtagatctgc agaagctcag tcatcggcgt atcactggag gccagggatt gttgggggga 4440
 attcggagat gaaaga 4456

<210> 1786
 <211> 4077
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1786

gatcgtttta acatcatcaa caacatcttc tagcatttta tctttgactt catcgttgac 60
 ctcaacaacc acaatctcgc tcacctcgtc cacctcgaca actagggcga ccctgcatac 120
 gacctcgttg ccgatgacca cacattctag ctttcccacc ccctctggct cccatccaac 180
 ctctccgag tcccaatctt cagcaagaat gacccccggc tcacaagccg gaattgtggt 240
 cagcatcctt actcttgcat ttgtcctgat cgcgctgac aactggcgat tgcaccgccc 300
 aaagcgtgct ctgcagacgg ccctcctcgg ggagaaatat cgacccccac caaacaagca 360

aaattcaatc tacaagttcg catcgaatct gtacacaagc agtaccctga cactgggtcaa 420
 tgtagctgag atgttcaagc atcagagcag agacagtcag ggatccatca gcggccgtag 480
 cagcagtatc tattctaggc agccaacgcc gtttccgacc ttatcccagg cagacttact 540
 gggctcctac agaggggggtc tgtggaggaa ccgtgtgtat gatgcagcaa gtcgtatgta 600
 ttttgctctt tcttccgtcg caaacatggc catggacaag gtcaagtcag tgccgcagaa 660
 gcagaaatca gcggcgataa ggaggagtcg ggagtcgtac gagtatggct tttccgagga 720
 ttatctgcat attccccac cgagaccagc tgctcttcga ggtgttgtgt caagacttca 780
 ctctaacagt tcctctgctc tacgtccat tacaaggaag tttaaccac cgcgccgcc 840
 aaccgacact gcgtcgcaa catgggtgcag cacgaacagc cctagccctt gcctagaaga 900
 gtacgatcgg aacacaccgt cacagcagtt ccaaggccta tgcaagacg cagatattca 960
 ggacctagtc aaagtgcgaa gtgtctcttc tggtaggtg gccatgagca atcccgccga 1020
 catcagcgta gattccttgg ctggctgtct ctcaggagaa aaggaacgcc agcctcagca 1080
 ttgcctgaa gaatcactgc cgacgcaaga tccaagtaag aacaaccttt ctaagccaca 1140
 actgaagttg ggtcaatcag caattcagcg agagatttca ccggtcaagt tgtcgacggt 1200
 tcaaatgttc cgggttgaga tgaccttctg acctcgtaac gacggacata tgtaagttag 1260
 cgaaggacag cttgtgcggt tggagcagaa attcgatgac ggctgggtaa gtctgctgtt 1320
 ggcattccga taactaatga tcaactgactt tcgtgttcag gcgtgggtga ctgtggtcga 1380
 aaccggaatg cagggcctta tccctcgggc ctgtctctcg acctggcccc ttaaggaacc 1440
 ccggccatat acgccagca gcatctgctc agaccgtggc ccaggaagca cgaccagcct 1500
 ttctcccaca gactcccagt ctgttcggtt ctaccagcgg cattctccgg gaacatcaaa 1560
 gtctggtttg ggatcaaagc cgccgagcgt gaaatagcaa gtattattcc cggcactaat 1620
 atgtccggtc aatcctgtaa atataatact gcataattc tccatgtctt atgcgtatgg 1680
 tcagaagttg tgtgtatatg cttttatgaa ccgtattcga cgcaatgttt tatccaagat 1740
 cgagcccgat attgcactga gcagcccat gatcatctag atttgtgcca ggcaccgcca 1800
 gtcagtaatt cctagctact cgtactatgg tcacgtgat aagaggctct atgccgcggg 1860
 tgtcattgag tatattcgac tgctcagaca gtggaaatgc agaccagata ttacacctgc 1920
 gcagaggcac cagatggttt ccacatgaaa ctctctatt tgtcataagt aactactatg 1980

ctgcactttg ccgtttttgc tgctgcat gtcgaatgaa atattgtgct tcagccctca 2040
 gttctaacat caagcggtcg tagtagtggt tgtcactccc catgagctct ttctgtctat 2100
 atagtactga caacgaaact attaatttgc aataaagccc ttcaatctta tctttagtat 2160
 tcttatacgc ttgttgagaa taccgggttg cttttctcaa cacgttgctc gtcagcttct 2220
 ggattccggg caagtggaat tctgtacag aagcgggaatc atgaaccgct agcttaaaca 2280
 taatcatacc gagctgaact acgtgaagcg gatcacatag gggcaaggag tctccccgaa 2340
 cccagaaatg ctgttctcct gtactttgtt gaccgggtcg ttaggcgcat tccacatccg 2400
 atcgtcagaa tcgctgttac aaagttagct ggttaaccgg aaggagcagg ggaaaaaatg 2460
 gaaaatgtac atcattaacc caacatgggt gatactgctg ctgtcattct cgcagtcaca 2520
 tgctccgccg aagaagacag catcaccagg ctggcgctct tcataagggg attttctgtg 2580
 aggctatgtg agcgattttg atcgaatgtt acttgctgca gacgtacttg taccgaagt 2640
 tctctcctgt ggccgagtag atggaggacg tgacgcggag gccctccgtg aagaggtcac 2700
 ggccgggttac ctggcacact gccagcaga caaggccgga acagtcgtat cccacgtcgc 2760
 cgtagtcata tgggggttg tcatcgctgg gaccgtcgca agagccgccg cccagggcgt 2820
 agggagtccc ttccgcggtc agagctttgt caaggatagc ctggcctacg gtgccctctg 2880
 cagatggggc ggccctgaca ggcagggcga ggaggagac catcgcgaga tacttcatga 2940
 tagcgttgat ttatgatcga gtttgatgag ttagagtctg tcgttaattg ggagtcaata 3000
 cagaattctg gttccagtct atcgagacag tagccctttt atatctactt cgctggagta 3060
 ctatcaccat catattcgtt gatcattatt aggctgagat atatttaaca agatcagcgg 3120
 ctttcacgtt acattcgctt tatacattat tgaacaggaa ttgattgtct cttggtgtcg 3180
 tatcgctaaa atgatctacg ctgaatacga gaaaccaaga tcgagataac gccgttgatg 3240
 gggccgcgtg aacgggaaag accaagccca atggctagac gagggctgat cttcgtgat 3300
 tgctactctg ctgtgacaac ggcagggccg ctaggtatat gagataatgg caaggggcca 3360
 caggagggtca aggtcatccc cacgcatccc ccgacgagaa tagtaacaac taattctggt 3420
 tatgagggca cttgaaagg catttgtag tagtttcgaa catctcgac cagcaactta 3480
 ctaaacctag tactcataga catttgcaa cgacttgga ggaattccgg acagcgagtt 3540
 ccctaaatag tagcaaattc ctgaacaacg taagagctcc atttccagtg gaccagtagt 3600

cccaggcact tgtcttatca tccagttatc ctatgtacca agtaggaact cgactggatc 3660
 ttggagggtcc tttcatctgc tgtagcaggt gcttcacaga cgattgtaca aggggttgaat 3720
 tcgtctacct ctccgctcaa ggggtccgtct gtcttgtcga gaatcaattg gatgcaagtc 3780
 gcagcatcaa gagcacgcta atactcttat caaagcggag cgtagaaggc aagaagggct 3840
 gggcttatct tgttgactga cctgagttta atgactcttc taaagtatag cttcgggtctc 3900
 tcttcccatc atattgcatt ttaacacagg caaatgaata ttattcagca gatctacttg 3960
 cctgtagaat cacgattttc tctttgcatt ccgccataca gaagcacacc atactccacc 4020
 atgaccttgc gttgacgcca gaatcgacat gtcgggaagc ctttaccaca agagcgt 4077

<210> 1787
 <211> 2400
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1787

gatatgacca tcaagtcgta agttgattca cgacttagaa gacttcggaa tgtgtgccgc 60
 gcatgcaacg tctgaatagc aattgcatat gggaatacca tggctgtgga ttctttctcg 120
 atcgcaacca cctcatcaaa gctaattgaca agcgtggtaa cccatcctaa gatattgctt 180
 gaaaagcaaa tatggccctc agaaatgtaa atgcgtccgg ctaagatgat ctcacgttgc 240
 aaagcacagc tataatcttc aataaggtaa tcgtcttctg ggacactgcg gaaaagctgg 300
 tgaaagtccc tgttgcgttt tttgcttgcg acggcaaadc cagtcagtcg gggtagacta 360
 gcattagcgc ctggaacccc aagtgcaagg gcgccagcgc caatcgacc aattgttgac 420
 gaggttgac cagatgagcc tctgtggcgt cgccgagcta gccgactccg tacactaccg 480
 cttcggaaaag gtctcgtgcc aacttcccc tcgaatgcgc tggcacctga gggagtctgg 540
 gcgcctgtag gctctttcat tgagctagct tggacatcag aaccgtcgtc cgccaacgcg 600
 ctatccgct tttcgtacgc catagtgact gcgcgtgcaa cccgcatac ttcaagcttt 660
 gcagcagcat catctcgctg ggaaacggct gggcttcggc gcgtttctgg tcttagatcg 720
 ggcttcgtaa taacgacacc atctggagtt gagatagatc caccggggg tatatcgaga 780
 tccaaatggc tgaaattgag atcaccagaa cctagagtgt caatagccat gggcttcttt 840
 tcctccggtg gagctttgtt gatttcatca gattctcgcg cagtctcgtt tgacggctgt 900

gcttcggagt cattggcttc cggtatgggt ggattacggg ccttttgggc attgagagtg 960
tttgtcaggg tagaggcggc agtctgtgcc gctgaaaaca cggaggaaaa gaaccagtc 1020
tggggattcc cgaccttccc ttcttcaatt gtcgggctag cagctatcga atttgatagc 1080
ttactcggct tcggatttac agaagaagta gacctaacac gccgatgaga gatcatgttg 1140
cccgaaacgtc acaacaacgc cggccggtaa atcgcgggat gtgatagagg acggagactc 1200
tgtgataccg gagttcacia caagaggtgc atgttcaagg tgaggggtgg gcggcgtcac 1260
tgtagtagaa gggaatggga tggcactgtg aggaggtgtt tgaagacggg gacgctccgg 1320
cgaagatcga aaggtctctc ccatgagatc cgtacgtatt ggttctggaa ttgatgggat 1380
cggcgggggc gcctcagcta tgetaccggg ggccatcttc gaggacaagc tgcttcgtcg 1440
gctcgcgtc cacgaactct caccgacgt tgattcggct cggtcacggg ggacgatttt 1500
cttgtcggag ctgaacgcat tctttaaacg ctgagctttt gatacgtttt tcttcttggtg 1560
gttacggtcc gtaggcacac tcagatttga gcttgctggc tggctagccg ggcgactgg 1620
ttccgtgtca agattcgagc tgccaagatc tgaggttgag ccactgacgg ccgactccgc 1680
atcaccatgc gctccatctg taccattagc gtcagccgag gctgttttga tgagaggtga 1740
agaggccgta tagaaaccag aatgcgaatc atgcgacgtc aggggagggg ttctgaaagc 1800
cgcattgagc gtcagtatcc tgaaacaatc cgtggatcta agctgcggac ttaccggtcg 1860
ggctcagagt cgtcgggttag gagattcgag gggtcgtctt gggaaccatt accttccggg 1920
ggaagcaacg aggcgctaga cgctctcgcg cgcggattgt tagagtaact ggacaaacc 1980
ccatcattgg tctccaattc tagagtggct ggaacttcat cgaccagtct caagtcaccc 2040
ctcttcttct tacgtttctt tctcgatgcg aggagcttcg acagaccgct agatcccgat 2100
ttagatgatt ctgcctcccc cgcttgcttg tcggacgtgg aatcgatgga ggaccgacca 2160
ttgtccgac cagagcttcc aacagtctcc aagtcgaccg gaattgtctt tgagcggatc 2220
gatctattta agggcggagc atcggttggc gcgggctcgg gagggtcagg gagggcgggg 2280
atcttaagca gtgctacaac tctctccctc taggggggta ggtaagtga agagaatcac 2340
atccgagggg ggtagtatga actaggaaga ttgaatatta attacacatg atcatatggg 2400

<210> 1788
<211> 3711

<212> DNA
 <213> Aspergillus nidulans
 <400> 1788

```

gaagagaagt ttacgactat ttagcctaga tgaagtatag ttttgtgcaa tgctcgatag   60
cgtagcatac aaccctacct agtaatgagc tacttgggct gctagaataa atctcccaat  120
ccaagcta atgtagtcagag ctgaacgcaa gtctcgtaca tggccctacg aggcatcaca  180
atagccctaa agagtatcac gtgaccatac tagcaccgca atgagttcag gatccgacaa  240
tagcgaggct gtatccaagt ggcgcgaata atgtctatca ctgtagaaat atatctgatt  300
cgctcagctg gtcgataggc gaagcatcgg agttggcgga gttggcgag ttgcaggact  360
tgctggatta gggctgaggt cagacggact ctactctcc gctatagaca ctgggcgatg  420
ttgtaggcag cgatgggaga atgtgcattg cacatgggcc ggagatttct ggagtcaggct  480
catgcagtct agatcctgac tgcagtagaa tgtgcagatt ccggagcttg gggagttaac  540
ctgcagtaag ctgagctcaa gcaatgatcg gtaggtaggc ctggtggcca tatcagctat  600
agatgcgac cgcgccctcaa ggcgatttca agccctccct cttcaatacg tttgcgatac  660
cttagagaaa caaatcaaca tccatcaact ggcacagatt catctaccaa ctcaacgtga  720
ttaccgctcc agctttgacc taaacctcca taatcccat ccacaaggca ccatgggcag  780
cacatcttcc gagcccatc acgacagtga gccatcagc attattggcc tttcgtgcaa  840
ggccgctggg tccgcagaca ggcccgagaa actatgggag atgcttgccg aagggcgcaa  900
tgcatggtca gagatccctg atttgggggt taaccacaag gccgtgtatc atcctgatag  960
tgagaagctg ggacgggacg tctttccttc tagacttgag tttcagtggt gaagtggatg 1020
ggaagcaaga acctggccag actaacgcgg aatcttcgca gacgcatgtc aaaggggcac 1080
atcttctcga gcaagatgtc gggctcttcg acgcggcatt cttcaattat tcggcgagga 1140
cagctgctgt acggtcccta tgaacgattt caggatgaat ggccaggcta actgagcatg 1200
atgtacggat agaccctcga tccgcaattc cgcttcacgc tcgagtcctg ctatgaggct 1260
cttgaaaatg gtaccacct ccccccaaca gcccttgccg aaggctgaac agagagtaca 1320
gctggcctga cgattccatc catcgccggc accaacacct ccgtctacgc cggcgtcttc 1380
acgcatgact accacgaagg tctgattcgc gacgaagaca aactgccccg gttcctcccc 1440
atcggaaccc tctccgcat gtcctcgaac cgcacagcc acttcttcga cctcaaagga 1500

```

gcaagcgtga ctgtagacac cggtctgctcg acggccctgg tggccctgca ccaggccgtc 1560
ctcggcctgc gcacgcgcga agcagacatg agcatcgtct ctggatgcaa catcatgctg 1620
tcgccggata tgttcaaggt gttttcaagt ttgggaatgc taagccctga tgggaagagc 1680
tacgcctttg actcaagggc gaatggatac ggacggggcc agggcgtagc gacgattatc 1740
gtgaagcgac tcgcggatgc gctgagggac ggggatcccg tgcgcggcgt gatccgcgag 1800
agctatctga atcaggatgg aaaaacagag actatcacct cgccgtcaca ggaagcgag 1860
gaggcactga tcaaagaatg ttatcggcgc gcggggctgt cgccgtcga tacacagtac 1920
ttcgaagcgc atgggacagg cccccact ggagatccga ttgaggcgcg ctcaatcgcg 1980
tcagtatttg gaaagaatcg agagcagccg ttgcggattg gctctgtcaa gacgaatatc 2040
gggcatactg aggcggccag tggctcttgcc gggctgatca aggtcgtgct ggccatggag 2100
aaggggttca tcccgcccag cgtaaacctt gagaagccga atccgaagct gaagctggat 2160
gaatggaggc taaaggtggc agatactttg gaaaagtggc ctgcaccggc ggagcggcca 2220
tggagggcga gcgtgaacaa ctttgggtat gggggtaga acagccatgt cattgtggaa 2280
ggggtgccga agagattata cacaccggca aatggaaatg agaccggcca gataaagcat 2340
gagacagaga gcaaagtgt cctcttctct ggcgcgacg aacaagcctg ccagcgcag 2400
gttgccagca cgaaggagta cctgaagaag cgcagggagc aggatcctcc catgacacct 2460
gaacaagtca agaccctcat gcaaaatctc gcctggacat taacgcagca ccgactcgc 2520
ttctcctggg tctccgcaca cgcggtcaag tactcgacct ccctggacac cgtcattgac 2580
gccctcgagt ctccgccgc ggctcaaga cccgttcgca tcctgactc tccattccgt 2640
attggcatgg tcttcacggg gcaaggtgcg cagtggcacg ccatgggccg cgagctgac 2700
gccgcgtacc cgttattcaa ggcaacccta gacgaagcgg aacagtattt gcgccaactg 2760
ggggccggct ggtccctcat cgaagagctg atgaaggatg cagccacgac aagagtcaac 2820
gacaccggcc tcagcatccc tatctgtgtc gccgtgcaga tcgctctcgt ccgcctgctc 2880
aaggcatggg ggatcactgc ctcggccgtg acatcccact cgtccggtga gatcgccgcc 2940
gcgtatacgg ttggcgctct ctcgctgcgc caggccatgg ccgccgccta ctaccgcgt 3000
gccatggcag cagacaagac gctgaagagc gcagaggggc cccaaggcgc aatggttgcc 3060
gtgggtgttg acaaggctgc cgcgcaggca tacctggacc gcgttgagaa atcggcaggc 3120

cgcgctgtgg tggcatgcat caacagcccc agcagcatca ccattgccgg cgacgaggca 3180
 gccgtcgtcg cggtcgagaa gttggccact gaggagggcg tctttgcgcg ccgactcagg 3240
 gtcgagacgg gatatactc gcaccatatg gagccaattg cgagcccgta ccgggaggcg 3300
 cttcgcgccg cattggccca ggaagatgct gagtctggta ccaaggacca gactgatgtc 3360
 ccgggctttg cggatgccac taaaccgggc agcctagacc acaccgtctt ctctctcccc 3420
 gtcacgggcg gccgtgtcac agatgccaaa gtctctcttg acccgagca ctgggtccgc 3480
 agtctgtccc agccagtgcg gttcgtcgag gccttactg atatggtgct tggctccaca 3540
 gatagcagca atattgacct gatcctcgag gtcgggcccgc atacagccct tggcggaccg 3600
 atcaaggaga tccttgccct gcctgacttc agcagcagga atgtcagcct ccctacatg 3660
 ggctacctcg ttcgtaaaga agatgcgcgc gactgcatgc tcaactgctgc c 3711

<210> 1789
 <211> 3423
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1789

gtattacaat gttgactgcg cactgatttc cgagcgcgca tgtcgccgac gcagccggaa 60
 tggacatgat tctcgtgggt gatagcttgg caatggtcgc tctgggcatg caggatacga 120
 gcgaagtgcg tctagatgac atgttagtgc actgtcgcag tgttgcccga gctgctcaga 180
 gcgcctttac agtttgtcaa gcctgatgaa gactttgttt gtgcccacga tcctaacaat 240
 cgttatgcag gtttcagatt tacctatggg ttcgtacgag gtgtcgccag aacaagctct 300
 tcagtcggct attcgaatcg tgaaagaggg tcgggtgcag ggggttaagc ttgaaggtgg 360
 ggaggagatg gctccagcca tcaagcgcac cacaactgct ggtattcccc ttgttgga 420
 tatcgggtctc acgcctcagc gtcaaaacgc gcttgagggg ttctcagttc aaggaaagtc 480
 aacgacggac gcactgaaac tgttaaagga cgcacttgcg gtacaagaag cagggtgcgtt 540
 catgatagtt atcgaggccg taccgccaga gatcgcaagt attgtcacac aaaagctcag 600
 tgttcctacc attggtattg gtgccgggaa cggttgctct ggacaagtac tcgtccagat 660
 tgacatgacc gggaaacttc cgctggtcg cttcttacct aaatttgta agcagtatgc 720
 caacgtctgg aacgaggcac tccaaggcat ccaacagtat cgtgaggagg ttaagagccg 780

agcgtatccc gcagagcagc acacataccc tataaccgaaa gaggaactgg ttgaattcca 840
 gaaggctggt gatgaattac ctgaagagaa atgattatgg aatagttgcg tcttatgttt 900
 tgctccgctt ccttcatcaa ctactttggc agtggcattt caggggtgtgg tacctactat 960
 aacctttgta caaattgctt ctaaacgcgg ttacgaacc attgcacaaa tatttataag 1020
 ctgtagtata tatgaatttg atttgtgatg ctgagctcgt gcttaacgtg taccgatcc 1080
 cgccgccaac tctttggaac ttgaaaaca agaactccat taacatcaaa aatgcatcaa 1140
 gtagttagcg agtaacaaca ggctgagaag cgctgcctcg tggaaatatt tcgaagaccc 1200
 aaagcacgtt atcattacaa ttaatattac aaaagtccca gtgggtgctag gtgggtatgga 1260
 tcataagatt atgtaattta gaatgtatca acacgtgaca tatcatgtga ctgactacct 1320
 aaccacgcat gttaatcctc gcgtgcctat tctcatccaa cacttcttca cgcactactg 1380
 ctccagcaat aaggaagcta cctcgcgcac tagtggtgat attgagtatg tgctatagtt 1440
 gtgtctcaca tcgccagatc taagagcttt attgccttgt tgcgtagaa cagatctggg 1500
 tggcgcgcgc gcaactgtct ccagaggcac acctgttacc tacaaccgcg ccgtagaaat 1560
 ctgaaccttt caatcgctac aatcgatcgc catggctggg aagctcagta ctatacgctg 1620
 gatgtcttgc gccaacacaca ttgtccttgt ttaggcgact agaactccag ctataccctt 1680
 cacgtggatt agtgagctaa ctccagcgcc agatgaaccg cgtcgcctcg gtcgctcgac 1740
 caagggccag cacaagagcc tcgacatggg caacgaaacg ccaacaaaga aaacgaaagc 1800
 taaagcgtag cccagagata aacccccgaa accctccgca gagcctaccc ccgcgcttag 1860
 cgaggaggaa gagattatcc ggtgcatctg cggcgaatat gaggaagagg aagacatcga 1920
 gcgagatatg atttgctgcg atcagtgttc agcatggcaa cataatgatt gcatgggttt 1980
 gacattcgcg aagggcgaag tgcccgatca gtacttctgc gagcagtgca agcccgaaga 2040
 ccatccggtg ctcatggaca agatagcaag aggcgagaag ccatgggttag aggtagcgga 2100
 acgaagaaga aaagaagctg aagagttgaa acaggcacga cgcaagaagg gaaggagagg 2160
 aggcaagaga ggcagaccaa gcgaaccgaa agagcccaag ccctaagaag agcacaccct 2220
 ctcgtacacc ggcacctcg agcgtcaggt actcctcccg ctgaaccacc cagcgctgtg 2280
 gatcgctacc ccagctcccg agaaaaatag tcattcgctt gagaagccac catccagttc 2340
 tcagaagcga aagctgagtg aacaggaggt atcgacgccg gagtcggtaa gtagttacat 2400

tccccatcaa cgctagactg aaactctaac tcacatcaag ggccccaaga cgaaacaggc 2460
 aaagatttcg ccgcctgctg caagcccggc acctcacgtc aaccagtcgc cagaggataa 2520
 agagccagtt ggccaggata ctaatcaaac gccggccgcg gacactacga agactgaacg 2580
 actgaagact cttgaagata tcaccaatcc ggctaggagg aatgctgcta gcgcgctaac 2640
 taaagtgttt gtggaccaga tctccagtgc cctggcggga gggctcttca aaatgtctga 2700
 aggcaagacg ggggaggaag ttggtcagca acttggcatc tcagtcgagg aggctttgta 2760
 tcaaaatcta atggggggag gtggagaggc tacctcagaa gcttataaga tacaactgcg 2820
 ggcgattttg ttcaacgtaa agaagaacc ttctctacgg gatcgtctgc tcgtaggtag 2880
 tttaactcct gatgccctct ctagaatgag ctccaagag atggcaagcg aggagctaca 2940
 acagaaagat gctgagatca agcgagaggc tgaaagacag cacatgatca ttcaggaaca 3000
 agggccccgg attaggcgaa ccataaggg agaagaactc gttgaggatg atcagactaa 3060
 tgtttctact gagcctgtct tctcaaacat tctcgtcgc gttaccgaga cggatgggag 3120
 tccggcgcg cagagtccaa ctagtccaag tgctaagcag ccagagactg acggccataa 3180
 ggtcaagaca gacgctacac cagctgaacc cagcctcat gacgaacatt tcccgacccg 3240
 gagccattct cctggcgccg gtcaggacca agtcttcccg gaggtggcca cacacattag 3300
 ccagccaata cccactggca acgtccaggc cgatgcagag attgatcagt tgttgaaaga 3360
 cgacgacgaa cccgagtctc caccatattc accgaagacc accacgatga gggagctgtc 3420
 tgg 3423

<210> 1790
 <211> 4183
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1790

gacgtcgctg gcgcaatacg gacatactac gtctggcaga gtatgattgc ctctacgac 60
 accacttggg aaggggtggc tgtcttgctg gcagcaacgg tggaaatcaa cctcggcctg 120
 gtatggcaga gaatccccgc tggcttttca gatagctaag tgacatagat ttgcgcctct 180
 gctccagcat tacgaccact ggtcaacttt ttcaccccc gtcttcttgg cacctcatat 240
 cgctacgggt cggatcgcg ataccgctcg agaaatttcg agaactcgcg ccagtcgtgg 300

aggctcaagt cattgactgg aaactcgtcg aaaccatcta ggcattcgaa cttctacaat 360
 gtcgatgcaa aaatatccag tgatcacctg aagggtttcc ggactgtcta gatgaatccg 420
 cctgcctaca cttgcacgtg ttatgctcca ccgtgatccg cctgtgatcc cagcaggcga 480
 cttcaattgg cttatatggg gacgtcgcgc gtctcaccaa cgacagtga actctcaaaa 540
 accctacgtt gagcgaaagg tcaatatcgc ctccgactcc gtctatacga agtgatgtaa 600
 ggagtattcc cagccgtcac acgaaggaat gtgtgtaacc tcgaccttca ctatttctaa 660
 catctctttg atgattcttg tctatcttta attatcttct acaccataac atatgggatg 720
 gttctggaac ctägcactct acacaaataa cgagtacatg taaatatgtt atgagggcaa 780
 atagcctgct caattgccaa taaaaaaacg ttcgacttcg aagacggtaa taattattgg 840
 tgatagctgc tctccgcag gtcaacttct agaaaatata gttgtgagcc gatgacgagg 900
 acacgttggc taagatcagt aagtggccat tgcgctcgac accccaattt tatgttataa 960
 tccccgcagt gacacaacat attatagtca catgttctct aagaacagct tgactggctg 1020
 atggatacga ctttgcatac ctcaattatc tacttaaacg ggtagacaaa caattgtcat 1080
 ctggatagcg agtaatgaca gtccctcgtc cttttaggca tctgtttccg atctagcacc 1140
 aaatttgatg atcgcggaca atttgccgat aggtaccccg tgactctcgg tggcttcagt 1200
 tcacgcacgc gcaccgaagg aggaattccg tgatgtcttt cgccggaggt ggaaccgcca 1260
 caccatagag ggaaagaaaa acggaccgtt gttatcaatt acttctggtc ttggagatct 1320
 ggatgatggt tcggtgaagc tgacgaatat tattggtcga aatcgccgaa gctgccatag 1380
 cttcttctcc gcagggctgc tgggatcaca gcagtccatc aaaataccag tggtatTTaa 1440
 gaccgcaagc ccgcatttcg ttgcagagt tggctcgaat ttatttgat ctcaacttac 1500
 tcttacgac ttctcatatt attcctccg tttcgtatac agtcgagtgg tcgtctcgaa 1560
 gctgtagtat acttcttata tccccgtct tatcggagct tgatcaaagg gctctttctc 1620
 ccacttcctt tacgtcgtct ttctcctttc aacctgatcc tatccgtcaa gccacaatgg 1680
 cttctgcctt ccgtccagc ctgaagctgc gggcttcagc tcgtctccca gctgttcgca 1740
 ctattacaac cacaccccg cttcgagctg cggagaagcc ttacttcccc aatgagccta 1800
 ctgctcccaa gctggctacg gccattcctg gcccaaagaa caaggccgct agcgaacagc 1860
 tcaacgaggt cttcgatgtc cgcagcttga acatgctcgc cgattacacc aaatccgtcg 1920

gaaactagta cgtcaatttg cegtcaatct accccgcgca gtgtttgccca gggctaacac 1980
cgaaccagca tcgccgatct cgatgggaac atgtctctcg atgtgtacgt ggtcaatcat 2040
atthttatccc tactttgtaga cgaatggcat ttctaaccgg actgcagtta tgcccaaadc 2100
gcgtccattc ccgttgggta caacaaccct cacctctctca aggtggccgc ttcgcccgag 2160
atggctacct ccttgatcaa caggccagct cttggcaatt tcccttcgcg tgactgggct 2220
cacatcctga agaccggcat tctgaaggte gctcccaagg gcttggacca ggtgtttacc 2280
gctatggcgg gttctgacgc caacgagacc gcttataagg ccgctttcat gtactaccgt 2340
cagcaacagc gtggcgggtcc cgagaaggaa ttcaccgagg aagagattca gtctagtatg 2400
ctgaaccaga cccccggatc tctcagctg tctatcatgt ctttcaaggc tggtttccac 2460
ggcgtctat tcggcagttc ttccacgact cgcagcaagc ccattcaca gctcgatadc 2520
ccgcctttg actggcccca ggctcccttc cctccttga agtatcctct cgaggagcac 2580
gctaaggaga acgctgagga ggagcagcgc tgctgcagg aagccgagcg cctgatcaag 2640
gaatggcaca accccgtcgc tgctatcatt gtcgagccca ttcagttga ggggtggtgat 2700
aaccatgcct cccccgcctt cttccgcggt ctccgtgaaa tctaagcg caacaacgtc 2760
ctcttcatcg tcgacgaggt ccagactggg gttggtgcca ccggtaaatt ctgggcccac 2820
gaccactgga accttgagac tctcccgat atggtcacct tctccaagaa ggctcagact 2880
gccggttact actttggcaa ccctgcctg cgtcccaaca agccctaccg ccagttcaac 2940
acctggatgg gtgaccctc tcgcgtctc atcttccgtg gtatcattga ggaaattgag 3000
cgcttgttc tggttgagaa cactgccgcg actggtgatt acctctactc tggccttgag 3060
cgctcgcga agcagtacc cagcacctg cagaacctgc gtggtaaagg ccagggtacg 3120
tttattgctt gggatactcc caagcgtgac gagttccttg tcaagggcaa gggcgttggt 3180
atcaacatcg gtggtagcgg acagaacgca gtccgcctgc ggcctatgct gatcttccag 3240
aagcaccatg gtaagttccc tgttatcgct actaatgtga acatggctaa cttctcacag 3300
ctgatatcct ccttgagagc attgagaaga ttatcaagca actgtagggg ggtctgggct 3360
aatgattgct tattgtgcgt ttattccacg gcgttataat ggtaaagtgg gagcagggtg 3420
tctcaaatca ttgcatttat cacaattata tgagttcgag ttcagaaatt tgaagatccg 3480
atgatggata gttcaagcta ttgcagctgg tcaactgaatg ctaccaaagt cttggcctcc 3540

gagaatcgct tgtaatatat gtaaaccagt agatatcata actcccgcgg cgaaatgaaa 3600
 tcggcttcca gaaagaacta cccgtaaact ccgattcgtg tgcaaattatt tagcagagac 3660
 agagcagaaa gggatatctct tgcgttctct ggtatccctg agcaacaaaa attttcggcc 3720
 acaagccacg tatgcctcgc ttttacgcat aaagtagcag atagcccaac aattaccct 3780
 ctctctcagc cgtacttcca tctctcggta tgtactttat tccagcatcc tctagatgcc 3840
 caataacttc ggtaggaagc gagcctgtga ctttcaccgc atatgtcca gggacataac 3900
 cgtccagtcg ttgccagcga gctaccacgc ttgttgccgg gtcattgaca gtgactaggc 3960
 cctcaaatac ctgtgagggtg cactcttgaa tgttgctggt gttgccgcgg aggccaagga 4020
 cattgtcgca gttcggacaa ccttcacgca tgaatttctg attgagaaaa accagttaac 4080
 tattgatgct gatagatagg ggtgcacacg atcagggggc ttacgaagt tagctggacg 4140
 agtgagcaga ccatgcaggc gcggagagtg cgctgcaggc tgg 4183

<210> 1791
 <211> 6447
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1791

caggaggatt gttagcgaac tccttcaacc tatccgtgat gatctcaaaa aggtcgcgga 60
 tgtcaccatt tttaacttcc caaataaagc agaacgagct tctgagctcc ggcgtctgct 120
 taacaagatt ggtgacttta tcaacagcaa cttgcaggga gagaacactg gttctctctc 180
 ctctctcgaa actcgactat ggtatgtcga atatcgaca tctttaagaa cgatatctaa 240
 tattatgctt aggcactatg tctctgtcca ttactggccc acaaagacg cgggaggagc 300
 taaacttcaa gaaatgtacc acaaactgat tgaagtccac aagaaatctg ccgaacacac 360
 tgtcgctca aaaggagact aaactatctc gatcgagcg aaaagcgctt tttccgaatc 420
 tgtttgaaca ttcgtttttc ttaccatttc tcgtttatgc atacttggga aagcatggcg 480
 agcggcgctc ggtgtggtcc acttcaggga actctgaaca tcatcccctg cagtggcctc 540
 gataatgatg ttgcatgaga tgtctcttgt ttttatctat tttgctccct tcgtccactt 600
 ttttttttgg ctcttcgtct tcttatttgg aacgatccgg gtcgggttc aggtcaact 660
 gtatttgacc aaccatatct tcttcacag cgctacctct acttacctcc atcacctata 720

ctattatcat catctagatc cgaacccctt cctatctgcg ctggcggttg ggtcagatgt 780
ttacgggcat tcatgtatcc tactcttatt cattctggga gatatgctga aatgttgcta 840
gacgttgttt ctatctctac tgcgccaact gtgatttagc atgttctgtt atgattcacc 900
tataccttcc tgggcgaagt ggggtgcttt ggtggctggc tacctaccct gtcgggtaac 960
agatataact cgagaaaagt gttaggaact tgagaatata tgatgggaca gactctactt 1020
cgtgtaatct tataattagt ggcagtgtgt aacctctga ttaggtattt atagtccagg 1080
tatgctgtga taataagacc aagtactgaa atgatctagc gccagaataa tgaacaaagt 1140
atgaaaacc gccgagccta agtccatt accgcactt tcttacgtgt aaagacagat 1200
agaagacaga aagcgtaaaa aaaaaaacct caaacggtc cctggcttag gaagtaaagg 1260
agagcgtaga atataacagg cctacaaggc aggagatata acggcgggat ttggtaacct 1320
gcggccgcta taggggtgcg tggattttcg ggcattccgt ttgctggaac aacagacgtc 1380
tgcccagtgg cgccctccgc gctgaccagc gtgctaagaa gccggagtgc tgcgtccatc 1440
aagtcacga atatagett tttctccaac cagccagtt tctcttcgg tctaattttc 1500
tccaagtgc tcttgagatc tgcaccttct ttttctgcc agtggatttg cctgcggaga 1560
agcctgtata actgatgtgg gttcatttcg agctcgtggc cgtcgaatcc agtgtcagaa 1620
ctgaactcag gaacctcaaa ctgctcaagg tctcagtcg cggctgtgtc gtcgttgaca 1680
ccttcgctgt attgctctga atcgtcgcga ggtgggtgtg atagtttcag tttgatgcgc 1740
tgagccttgg aggtgggggt gccaacaggt gtgccgccgg acgagaggat atcgtgacgt 1800
ttgggaacag ggtcagacgg ggcagggcc tcagtctcgt gtacggttct catgtgcttt 1860
gcgagggcat cggaacgggt gaaactgcga tcacattctg gtcggattgt aagcatcgcg 1920
ttgagctcat tgttacgcga aacaaatggt aaagaagcga aggggtaata aaacatacca 1980
gggagcgcg agtagaagg cttttctctc gtatggctcc tcatgtgcgc acgtagcgcg 2040
tagccgcttg catgcgtttg acccttccga gtacaatcgg accattcgca ggaatatttc 2100
ttctgccggc taccgacatg ctggttggtg atgtgttgga ccaagtcgtc catgttcccg 2160
aggtctttaa aatcacatcc ttcccatcgg cacacggtaa cctggtcgtt gcagaacccg 2220
ctgtagtcct cgtcttggtt tgccctatg agcgacagag tggtgggtga gttgggaatt 2280
tcgccggacg tatcgacga tatagaagac gacggggacg gaggcggagg tagctcatcc 2340

tggaaggaag ttgacacggg tgtgttacgg tcccaggaag ccatgccggt gcggcgctgc 2400
 tttgacgggg gcatgttaga tgatggtggt gagacgccct gcttgggata gtcgcgggtcc 2460
 gacatgtcgt cggaggcaac ggaggagagg ggggagccag gagaatcggc cattgggaac 2520
 ggggagtaat gtggacgggc ggaatgagcg aattgatggg tcaagagcgg gggcaataag 2580
 gtagcgagca gatttggatt ggggagaaat ccagggtttg cttgacgtga tgctggcgctc 2640
 tggagtgcag tatacagccg gcacgtgatg aggctattgt ccaccacttt tgttcttttt 2700
 agcttcgcac acctccaacc tccaaccac aaactacaac aaaacataaa tcaacaacag 2760
 cacattagcg ttactgagta agttataacc aggttatcct tgccctcaaca ccgcaactgt 2820
 tcaatgatga tcacttcaag aattctgcaa ttccgacaat ctccaggctt ctgtgagatt 2880
 gcgtgttgac ctactacact tgacctgatt gaaaatactc ttccgtggca cgctttgtcc 2940
 aaaacgctgt tggatcaggc taacaataat cctagtctt ccaggttcaa tttcaatatg 3000
 gttgtcacac tgccctcgcc ggccgttagg tgccgttagg actgccagct cgcgctgcc 3060
 agctggcggt tcccgggcta ccacatcacc gatgacatga tttagatccc ccggactctt 3120
 cgatctgac atactctgta aagggtgcgag ggtctccttg cgtaactgtg ctctgtgtca 3180
 cccggatcgg acggtctcaa gggttgccgg cagccactca taggcacca atcggccttg 3240
 cttcgtataa cttgtagtcc tcgaggaaaa cgcagcgagg tggaggtgtc actgcacctt 3300
 gaaggacggc gttctacagg tggttgaccc ttggaaatta accctgccta caagttaatg 3360
 gtcattcaag agcgacaagg ctagaccttg ttagacgcgg ctcatgctct catctcaagc 3420
 gtagttctca tcttgcccta gggtattccg tcgtcaaccg ggacgtggcc tattgcagtt 3480
 gggcccaaga aggcctgatg gaacgaaatc tcagcctaac cgtgccgcga aactcaggag 3540
 aagaggtttt cacccttctg ccaggctagg atacttttcc tgacagcgga ctaatagcca 3600
 cggatatgct taaacatcct cttctgaaat ataatcgttg aagcaaccgc gttcattagt 3660
 gtcatttct gcagtatcgt cactcataac gctaaactct tccaatactc caaacagaaa 3720
 gacctatccc aacgaatcca taaagagtag ctaaaatata ataagtataa tagtcaatcg 3780
 gcgtccacc aactacacca atccaatctc gtcactccca ttgatcgct ctcgaaactt 3840
 tttcttcaaa acttcaaaga gcgtatcaac aaagccttca gggtccttcg cggcatttgc 3900
 atcatcctta gctgtatcca tgcccttctc cttcccattg tcaacgttgt tctcaagctc 3960

cgtcacagtg ggcgtagatg cacggctatc gtcaatcacc atcgtcgcac cactatcctg 4020
 cccattcatg tccgtagtga atttgttgaa tttctccagc tcctgcatgc ccagtcctgc 4080
 gaggatggct gccatcaagt ctgtctcggt ggggatcaat ctctattgtt ggtattagt 4140
 gtttgcattc atttcacaat acaaataaag tagcactggg ccggtagggc atgacgaggt 4200
 ttgacgtacg gggtcaggga ctgcagatcg ggcttggatc tcccccgctg tttcaggacg 4260
 tatagcgttt tctgctggga tggggatggg aaaggctgtt aagggtgaga taaagatggg 4320
 gaaaccaagg actaagggtg cccatgattg ttgtgggtgc atcgctgtcg tcgtcctggg 4380
 agtagatcta tacaagtggt tggagatggg gagatgtggc cgtacgaagc gaatcccaa 4440
 ctgcaagttg cctaaatata accactagct agatgctcca tcctgacgga tatatcgaa 4500
 aggcgtgtgg aatgaaggcg tcgtttcggt gctaggggtg gcgtcgctcc gctggcatgc 4560
 aggcagttcc caacctaccc tgcccatccc catagaagta gactcagtgc ctagttcgtc 4620
 cgagccaagc acggctcggt ttgaagaggc aatgcataaa cgtctgcact ccaattaact 4680
 gaccaatfff tggagtattc ctgctgacca tattctgtct agaaattggc cttagatttg 4740
 actcgactca aagccatttc ctatgaaggc gggaatttcc gctgaaaatc ctgtctattc 4800
 agtcaaagct tgcacttgaa gcttggatca gttgaaacaa ggggttctag caaagccctg 4860
 agcattccat ggctctgaga cagaggcact agcttggggc tttcgcggtg gaatgtccaa 4920
 ctgcggtttc gatctagtgg tttgtttaca gtcgataatc gagcttgtag agtgcctgga 4980
 ggtggcgggc gggatctcgg gatgtgtctg atatgcccgt ctgcaactgc cggttctctg 5040
 actctagcgt ttgggtttgt cattcgtgta gtatcttgac gttcttgacg ttgtaaattg 5100
 ggtagataag gtcaaattaa gtatgtatcc ttgtctatac actcaaaggg tttgatattc 5160
 tcgaagtaga aagggtagag ttgttttgat cgcgaaaatg ccccgccatg gatctgtctc 5220
 cgcccgcatg gactatgaca gcattgggtc aatcgacgtc gaaattcaaa cctagctaa 5280
 atcaacgaag ataatcagtg gtgctccaag tctcatcggc aagatacctt accttgactg 5340
 aatcgaacag cataacatca ccacaatgtc cgccagaat gaaccgcaag ccgaagcaca 5400
 atcaccatcc tcgggagagg aggggtcctc tcccttaggc tcatccctct accaaaccgg 5460
 cttgcaaacc cgccaatccg tcctcggcag cgcgcacgtt aaccgctcat tgtccaacag 5520
 caacgcattc acattcccaa tgcaagaagc catcaccgag tttgcctggg gctcgatctg 5580

gaaccggccc gggcttgacc gtaagcagcg gagtctaata aatattggaa ttctgatcgc 5640
 gctgaaccgc cagctggaat tgggagtgca tgtgcgcggg gctgtgagaa atgggctgtc 5700
 tgagctggag atccgagagg cggttatgca tacgcttggt tattgtgggg cgccggcggc 5760
 gatggaagga atgaggactg ttgataaggt gctcgaggag ctagaaaggg agggggagat 5820
 caaaagggag ttgaaatgat ggcgtttgac ttggattgga tgaaagcagg tgcgaggaca 5880
 gaggagggag gatgaagagt gaacaatgga aggacctcgg gctggatatg gctatgccag 5940
 ttgaattaga actacggtac acgctgtgag tatttgatct tgtaggggta tacctattga 6000
 gaccagagct ctgcccagcg ttctgagttg gactgcatac gttctgcagg tactatgtac 6060
 ctaccggttt gcactcatag gcagtacaag ctatgattaa agctggctctg aatacagagt 6120
 atagcatagt ataattgaat gatctggccg gagagacagt caatcacgc tcacgatcag 6180
 ataagtgcgt caaaggttgt aaagctacga gataccaaaa cctacctagc gtcccggttg 6240
 ccgtgcacca gcattcagca actcttatcc gtgcctctt gccggatggg aagagcatct 6300
 agtcataggc gagatgaaca cgcaatcaag cagcgagcat gactcttgct tctgaacttc 6360
 ctggtggctt ggacaagccc tgcagttgcg gcagctcagg aaggtgacga agccacggca 6420
 tccggagctc atgacatccg ccacgcg 6447

<210> 1792
 <211> 1620
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1792

aagacgaaaa gaaaacctga tgttcggatg tacacatctc gagcctttct cattatccgt 60
 cggaggatcg gaaagtttgt ctgtttactg agtcacgtgc taccagcaga ctgcgcaggg 120
 tagttcatcg atgcgaccga tgtccagctc aagcgaacat ccgtgacgag tttgaaaata 180
 cctaaatcct tctcgtatgt ctccagatgt cggcggaat gagcttcata aatatggcac 240
 gatgtaattt tcttggccgg gaagcgtttt aacaatgtgc aagcgcccta gccgctcccg 300
 gtctcaagta gctactactg attgagtcaa gggaagtacc gtaacgaaaa caagctgaat 360
 tgagaaggag agtaagaaaa agaagtaagc cattcataca ttgccgcgtt cacctacagg 420
 tgtgcgaaag atatgaacga ataccggccg gctgtagagc attcaccacg ctccatcgac 480

gagacgaaat cgtccgcagt agagaccgga cagattgaaa tcctgccgac ccaataacac 540
cgtcacaatt tgcgcaaact tgagtacttc tcagcttata taaataatgc ataatatcat 600
atTTTgtcta tacaactaac tccgcccggT tttcctttcc ttttccgaag agtcaccgcc 660
ggatcctaatt actccaacgg tatccccaga cctaactaca tgaaagcatg taagacagtt 720
cataacagag tggatatcat aaaggacgTc gtcaactgac gattgtagca aaaaatcaaa 780
cgaaaatagg tgaaaaagtG tatggagaaa ggatgaaggt agatgccagt cagccacaat 840
ccagataggt actcctcccc agttgtaaga ctaacatcag ccaaataaaa gtcgggtctc 900
ccaaataagg tactatatTc gtaaacgtaa ggtcgtaatc gtgtacaagt cccggttggT 960
agacggTcac caacctcatc gagacatcat gcagttgcct aaagcagtga agtGtaagga 1020
tgggTttact cccccctcaa ccccttgatc atgttcttca gcgcgtcaag aagaacagct 1080
tcgtccggTg gtcgccacc agggaaacgaa ctctctgttg cctcgccTaa tgcccagacc 1140
cgtgcgctct taagaacacc cttgatataG tctttgtcct cgtagtcttc cagaaggaca 1200
gcctcaaaat catcaatggc tttgttagca cgctcgTtga aggaagcttc gtcggaagag 1260
gtatccatgg ggactggacc ggggttctgt ccacccatat tgtagggctg ctgctgttgt 1320
tggttgTgct gttgatgctg gtgctgaggt tgatgctgtg gcggaccggg gtttgaaggg 1380
tagctctgcg gtggattgtt gttcggcggg agaggctgtg tattctgggg aggatatgga 1440
gtcgaatgtt gtgggggagg tggcggtgc atgtgctgcg tctgcgcttg tgcttgctga 1500
gattgttgat attggaggag ctgcggtgga gggtcggagg cgtagggaga ggtgtatgta 1560
gtcggTgtgg tttgcgcaaa cgcaggagga agatgtgttc tatcggaatg gtatcggggc 1620

<210> 1793
<211> 5777
<212> DNA
<213> Aspergillus nidulans

<400> 1793

atccatatta cactgattgc ctcccttgct ccccaaattg ctcttctga tcccgtccc 60
tcctgtggc cgcaccccc cctccctgg acgacctcc acatgtcgga gtgtgcatct 120
taccgtcca gtatcacccc agatcgacc cattccacca ctctcgctcc gacggctcga 180
agggaccgca agagcgacc gcctacccg gtggttccc cttccctcc aatcaagctg 240

ttgagccctg tcagcttgcc tccaactggc cgacctgtca ctcccccca acccccctaa 300
 atccgcgcgc catgaataac gattcttttt catccttcaa atttcgccga ccatcgagca 360
 aactccataa ggacctccc ggttacggat cccgcgcct taacagccag cagagcacca 420
 cgtcactaaa acggcaccct tctgcccccg tttaccgcg ctctcttgcc gctgggagtc 480
 gagagcattt gcgaactagg tccaacgcat acggctcgtc atcctcgta ctcgatcaga 540
 atagcgcggg cgcttctccg gttctgggga gcagcgatgc tggccatttc cacagcagtc 600
 attcatcccc gtcccgacct ccatactccg gccggttttc cttgaacgat cagagctcag 660
 atgaattaat tggcgccccc ttcgattcgc ggggtatggt aagcgccctg gaagaacata 720
 ccgctgagcc cgacaatagg agttatcaac caccagacct cgccgaaagg tacactgaaa 780
 agccccgaa tttccgatcg cagactacac caaaccacg agccttgaga caatcagcca 840
 gtttcactac tctgcctccc cgtatggagg cttttccgaa cgccgctggc aatgaccgcc 900
 cgacaaatac aaagcgtttt tccgatgagg ccacctctgt cagacctccg gggcccagcc 960
 gaagcaagaa aagcagtttt tcgagcttcg ttaatagcat gctaggttcc ccccgaggaa 1020
 tcaaaatttc tgcaccagag aaccgggtcc atgtcactca tggttggttac gataaccaga 1080
 ccggccagtt tactggtctg cctaaagaat ggcagcggct gctccaggag agtggtatca 1140
 cgcagaagga acaggaggag catccacaga ccatggtcga tatcatgaga ttttacgaga 1200
 agaatgcccc aggggatgat gaagtctggc ataagtttga ccatgcttac cctcaacagc 1260
 caaccgccgc gagcccaata tcccagccag cgggctccac tacgtatggc acgcaacgaa 1320
 cgtctcctcc caccagccct cgattccctc agaaccatga ggggagcttc gaaaaccac 1380
 gagcaccgcc tccgattccc cgcgcgcgc ctatcgctgc acatgccatg tctccgcct 1440
 taggagggct tgtccctaac cgcgcacctc ctaaaccacc aactgctgct gctaacttag 1500
 ttccgagtcg gcctgcgcgc caacctccta cgtcgagccc ttattccaat atctctacca 1560
 ggccatcccc ggagacgcag agccctcaat tcagcacgcc tcccattcca gaaacggagc 1620
 ccttgcttc cgagtcgcaa cgcagccgat cgaattctag aacaaatggg gcgcaaggtc 1680
 catggccgct ggtgtcaccg agtcattacc aacaacagca ggagcaggca atggccgtag 1740
 ctgagcaagc ccttgccaat aagcagcttg aacggagccg tagccaacgt cagcagcaac 1800
 agtctccacg gccagaccag atgccgatcg cgcagccgc actcccgag cacgctcctt 1860

cgctgaaga tgttgctctg acacaagctt cccagactgc gcgtgctgca ccggcagctc 1920
 ggctcgcca aagaccccg ccaagtaatg ccatggatgt cagagcacga ttggctgcaa 1980
 tttgtactcc cggatgaccc aaaaaacttt actacaactt gaataaaatc ggatcagggtg 2040
 catctggtgg agtcttctact gcttatgaac agcatacca taattgcgtc gegatcaagc 2100
 aaatgaatct ggatctacag ccaagaagg atctcatcat caacgaaatt ttggatgatga 2160
 aggacagcaa gcacaaaaac atcgtaact tcttgagacg ttatctccat gggctagact 2220
 tgtgggtggt tatggaatac atggagggag gtagtcttac agatgttggt accttcaata 2280
 tcatgagcga accccaaatt gctgctgttt gtcgagaggt acgtttcttt gagcgatatt 2340
 tgagttctag tactgatttc gtctcttaga cgcttaacgg cttgcagcac cttcactcga 2400
 aaggtgtgat ccatcgagac atcaagtcag acaatattct tctttccttg gatggcaaca 2460
 tcaagctcag taagtgggac attgcaacat tacgctcaga ctgaatttta atgattcgca 2520
 gccgatttcg gtttctgtgc ccaaattaat gactctcaga acaagcgaaa caccatgggtc 2580
 ggcacaccgt attggatggc ccctgaggtt gttacgagaa aggagtacgg acgtaaagtt 2640
 gacatttggg gcctcggaat tatggccatc gagatgattg agggagaacc tccttacctc 2700
 accgaatcgc ctctcagggc tctatacttg attgccacaa atggcacacc taagatcaag 2760
 gacgagcaca acctgtcgcc tgtcttcaaa gatttctctc attttgcgct cagggtggac 2820
 cctgagaaac gagcatcagc tcatgacctt ttgaaggtat gattatgcat ctcaacacag 2880
 cagactgggt ctaatccttt acagcatccc tttatgaacc tttgcgcgcc tctcaatcac 2940
 ctttcgcctc tagttaaggc tgcacggatt agcagggcgc aggaaaaagc ccagaagggt 3000
 ggtgtttaga tctcagcctg ttggcgctct tatatgtcga tgtctactat attccttcag 3060
 ataccatta tcatgatgt ttcactttta cccgatgatg tacctggcgc cgcttatgac 3120
 ttccccattc ttttcgaac cttctcttcc tttgcaggtc tttcggttat ttccaaacca 3180
 aaatgataga cggcgatgac ttgatgctcg acatgggatt acaaaccctc gactacttga 3240
 tgctatgctt agtatctctc tcctttgctt gacgacgttt ttgcataccc gtattattga 3300
 ccttcgtgat cagttgcctg taacatgatg actcgcgtca ggctgatgca ctcccttctc 3360
 gcgcctgtgg ttacagcagt ttgttttggc tttggttgta tcggccaccg aaactgggtg 3420
 atgctgcgaa catgagacgc ttgagtcgaa aatccgatgc gaatgctgga ggcctatcct 3480

atggccttat tccgtgtcaa gcagttgtac ttgggtcccg acgttgctcg agattctaga 3540
 tgatatatcg atatactcga tcgtatgacg atcgaacaaa agtatatggg ggttttcttt 3600
 acggttctaa atgcttccta tgtcctctca ccatataata ccgctagagg cttatatagc 3660
 taagcactac cataataaca tctggaagta ccaagtgggc caagactaaa ggaaagaata 3720
 ataacagtat tagtggtgcc ttaactgtgc ccggggccaa attaggtaag ctagtggctc 3780
 ccgcccctcg accttcgtca ttccggtcag gttccagcaa ccattctaca tcttggttgcg 3840
 gttgcacctt ttgcttctct tagaggctct ttgcccagta ccacctgaac ctttggacat 3900
 tagcttatct tcaaacttgc ctttttattg ctgcgaaaat ctccggccga cttctcttga 3960
 gcttctgatt ccccgcacca agtggtctcc ggaccttggg tcgcagcctg agctccgtat 4020
 ccacgcagct tgcagctgag tgtcgttcta ataacatctt atcaaggatc gcaggagcac 4080
 aacaatcacc ggcaagcttc ggtagcctcc attttacgga aagatttatt tgatcaatac 4140
 ctatcggcta taattcgatt tgctctgaag gcggagatta gaaagttgga cactcgcgat 4200
 gttccgcgca cagcagaacg cttttgacga tgcagtcggt acggtgcttt tgagcagtat 4260
 cttttttgat gaaggggggt tcttagcttc tatatgctaa tcgctcgttt ttcgcaatag 4320
 ccaaagcaac ggatgagaac ttgacctccg agaactggga gtacattctt gtatgcaatg 4380
 cccgctgcat ttccaagaca tgccctttttg gatcagttaa gcatagatca tctaacattt 4440
 gatgtcgcgt tcacaggatg tatgcgataa ggttggggct gaggagtcag ggtaggatac 4500
 tggctcttga tcattgacaa gtgatgctgt tgaacaactc cactgactgg aatcaaatac 4560
 agtgcaaagg atgcggtcgc cgctttgatc aagagactcg cacataggaa cgccaacgtg 4620
 cagctgtaca ctctcgaagt gcgtgtcaca atccttccac caactgcgcg agactgacgt 4680
 tatttagctg gccaatgcat tagcgcagaa ttgcggccct aagatacatc gcgaactggc 4740
 gtcacgaagc ttacagacg cactcttgcg tctcgtggt gatagggtat gcctccacct 4800
 tagtctaacg gatcattttt actgactggt ggaacaagaa cactcatcag caggtgaaat 4860
 ccaagattct ggaacgtatg gaggattgga cggagatgtt cgctagcaac ccagatttcg 4920
 ggattatgga acaggctttc atgaagttga ggacacaaag tacgcactat tccgtttcct 4980
 gaataggctt tatagcttac atctcccaag acccgaacct acaacccccg tcgaagcccc 5040
 ggaagcggga gattaccgac ctagatcgcc agaaagaaga ggaggaattg cagatggcgc 5100

ttgctctttc tataagagag aaatccggtt cagccctca gccgcaggtg gagagtagta 5160
 gctcgggtctc agtccagaa aaccaagcac aagctgcgcc tgctggacca gttccttcag 5220
 gtacttctgc tgctacagtt tctagagtta gagctttgta cgattttcag ccgtctgagc 5280
 ccggagagtt acaatttcgg aaggagatg tcatcgccgt cctagagtcc gtgtataagg 5340
 attggtggaa gggctctctg agaggccaga cagggtttt cccgcttaat tacgtggaaa 5400
 agcttctctga tcccactggt gaggaacttc agcgggaagc tcagatggag gcagaggtgt 5460
 ttggccagat caagaatggt gagaagctat tgactcttct aagcacgcg agctcagaac 5520
 tcaatgtcca ggagaatgag gaaatcaca acttgtaaa ctcaacatta tcaatccgcc 5580
 ccaagttggt tgagctcatt ggaaaatatt cgcagaagaa gggatatgtc cccaactcct 5640
 taggtcagtc tctttcagtt actgaattac actcgagat gagttcactc aactcaacga 5700
 aaagtttatc aaagcgcgaa gggactatga atctctcttg gaggcgtcta tggctcaacc 5760
 tccacagcag caatttg 5777

<210> 1794
 <211> 6582
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1794

gcgaacgggg tgaatggagc tgagtaggag ctttgatttt gttttcgtgt tgtgttcata 60
 tcagactgta cttaatactt actgcgccta attgatccct tgcacgtttg tacgtttttg 120
 ttcttgacca tcgctcttcc ctaagatgaa gacagacggc acgcaactcg cgctgaggca 180
 gtagcgactg tgaaaggcac tctcgcttcc cagaaaaacc cttactactt gttactatat 240
 acaggataag gctccttagc caccactgac tctagcgnt ctttgcatg agcagctgct 300
 gtctacctca aatccagcgt tccacatcaa aattctctc agcagattta ttatgggcag 360
 cacaagcgat cttcagttgc tcaactgatga actccgctcc aactcaagt gtcccatact 420
 taccacagac tctgatgggt acgcaacaag tatcctgcga tggaacgacg cggtgccgaa 480
 cgctgcggta tcttttcgct ttcgcttgcc cgtgcctgga acttgctgtg ctgactttct 540
 aggcctcgt ggtatacccc gaattagtcg atgacgtcgt aactatagtc cgcggtatgcg 600

tcagacacaa ggttccatth ggggtgcct ggggtaaaca tacgacaagc accggctcct 660
 cgtgtgatgg cggcctcgtt atcgatctgg cgcacatgaa ccatgtggcg gtggactcgg 720
 aatcgcgact gatcactgtc ggcggaggct gtcgctggaa agatgttgat gacgcccttg 780
 agggatatgg gctggccatg gttgagggtg tagtgaatga tacgggggtt ggcggaatcg 840
 cgcttgaggg agggatatggc tggcttgccc cagggcacgg actgattctt gacaacctcg 900
 tcgctgcgac cgctgcctcg gcagacggta gtatcgccac tgcgtccaca gaggagagac 960
 ccgatctctt ctgggctctt cgaggcgccg ggcaatgctt tggcgttgtc gtcgagttcg 1020
 tctttagggc tcacgagcac caggatccgg tctgggcggg cttgcttggg ttctcgctgg 1080
 atcatttaga agctgtcttt ggctttgccg atacgttagt cgagagcacg aatggggact 1140
 cggctatggt tattcagctg tccagatacc ctttctcgcg acagggccgc gatgtgggaa 1200
 tcatggcaat cgthtttccat tacggcgatg ctaaactcggc cgaaactgtc ttccagccct 1260
 tgttcaacct gggacctatt gtcaacacga ccaaggctca gtcgtacgca tccgtcaaca 1320
 acatgttgac ggccgaggca aaacggcgtg gccgcaacgt atctaaaggc gccgcgtaca 1380
 cgacaccctt tcgaccagcg tttgtgaagg agacgatcat ccctgaaatg gaaagacttc 1440
 acctcgaagt accgggggtcg gatcgggtcat taatagagtt tgaattctac aagccagaca 1500
 aatggtgtga ggttccagtg acggccacgg cacacgggca ccgagggcat gtccagaatg 1560
 tcatgatcgg cctctactgg aacgatgagc aggacgacgt gaggatggag atgtggtcgc 1620
 gccacatcgc tggcctagtg gctgcagagc gagccagcca tggtaggcca gccgagggcc 1680
 cagttactga gtatgggaac tatgaccatc tgtctgcgca tgcgcgcgat gttttcggga 1740
 tcaactactc gcggctggtc cagctgaaga agcggatga tcttgataat gtcttcaaca 1800
 aatggtattc cttggtggag tagatctttc tgtaactgat tcttcgtat tgcacggcca 1860
 ttcttagact cgtgtatctt tacgggcggg ctattttatt ttgagttttt tttccttatt 1920
 aacagcttta gtaattcgat cgaaaaatca aaatctatac actcaactcg cgcccttggc 1980
 tgthtgagag gctgttttgt atggagaagc cagcacttgc tgcgtaaact taggccgctc 2040
 agcgacttta ggcggtgcgg aaaaatgacg aattagggct cagctaacca taccaatctc 2100
 gacagcaaac aacagcaaaa gctgacatct caccggaaaa gagccggcag gaaacgaaga 2160
 gaaaccagat gacacaaaga ccttccttc caggctgtat tcgaatggtg tcgacgcaaa 2220

aatcaggctg ctagccgcct cgtgcacagc cctgcaaccg cactgaagaa tttgccgcta 2280
ctcgcgacgg aattgatttc caacacgcac tgacagaaat tcaataatta gtggagcgta 2340
cccacatcga tctcacgctg atgcttagcc caattgatca cgaaagctgc gcctacacct 2400
gcctttcgat tggcatcggg cccctctgga tgcttatctc cagtctccgg cgccggacac 2460
cacatctccg ggattactgg aaactccggt cagcagagac atgacaaaat tagacactgg 2520
aagaccggga gctgggcaga ataagacca ggcattccgt gcttagctag ctagctgata 2580
gctttatttg gtagccgaac gactgccggg ttgctttttc ccctgacggc ttacacgtaa 2640
cacataacac gtagcacgaa gtccggttac ggagggccgt tgtgcggtgt agcaccaaga 2700
aggatcggta cagagtacga tcgtatcgag gctgattgct tgaaggaggt ctgacaggtc 2760
tgacaccgct ggactgggtg cgagttacac tgccggttcg gttctttagt gtggagctta 2820
tcttgggcag gttgtctcct tcccccttt cagtgtagtg attgggtgat cagtaaatag 2880
ataagtaggg ttgacagagg cagacgggca gattgaacgg cgggcggtgt ttcactatcc 2940
aaaattctgg tagtgaccg ggggttaatgc ctgagagttg ggagatgcgc acggattgag 3000
acggaaaaca tatctatttt gtagattata aattataaag tagccgccca gcagataccg 3060
aattcttcat gtagaagaga gttgatatgg aagtcgcaaa agaagcacia ggggtataat 3120
gagagaatcg atctatagcc agggatatcca cgatctcact gcgtcaaatt ttacctgcgt 3180
cttccactgc aggtttgcaa acagtgggga gagaaggaaac gtctcgtttc caaaccggga 3240
attatctagc gcgcagtacc tctgtcaaaa ttcttgatc aggcgccta gcttggcgag 3300
ctcggcacgg agagtgttg cgttgctgat ttgctccttg cggtggtcga tgggcgacgt 3360
tgaggtcgtc ctcgatgatg gggttggcgg aggtggaggc ggctgctgct gcccgctcgt 3420
atcgctcgc ggaagaagct ggtcaaaggc agccgtcata tgatgcagga gagcaatcat 3480
ctgcgtaaga agaatcatgc cgtgagtacg gtggggatct gggcagttca ggacgttggg 3540
gcagagggcc atattggcgc ggtgctcggg taggaagtcg tcgaggatga aggtgcttga 3600
tggtggtttt ggcattgctga gctcgggtcaa cttgaagcta atgctttgct ggcaccagca 3660
ggtgactgag gctgggactg gtgagttcag gccggatgct gtggtggtcg tcgggcctgt 3720
ggctccataa tggctgtggc cgtcccggga gcttggcggc gaaatggggc tgagagggat 3780
cgtcatcgaa tgccgggacca tctgtggtgc aaccgcaggc tgagtcgaag gaacaagacg 3840

cgagtctgga acatccagtg aaaaggggaa cgctgttgga tcggagagcg gagtatcgaa 3900
 ggggttcagc gagaggaggc cggcgagatc atcatctaca aatccttcag agtagatata 3960
 actatttccg aaattgggag gacacgctgg ttgactgtg atatcgacag tcgtgggtggg 4020
 cagcgtttcc gaagagacgg gagatgggat ggagaggact ctcttctttt cctttggtgg 4080
 gcaggtctgg tctgcttctt ggcgaggccg tggccttttg attccgcgca gcgagatgct 4140
 gtaaacgcag ggtgtattcc gtgtagcaca gcgccggcag gtcggtctat ccttagagca 4200
 cttaaccttt gcttgggtgc actggccaca tgagcttctc agaggtcggt cgtcgcgatg 4260
 cgggtggcact atagcggtag tggcagccgt aggcgagaag attggtgccg gcatctcggc 4320
 catttcgggc atggggaagg cgccaggctc agagtgatct gggcacgcca tctgcgttat 4380
 gcaatcgtgt cgttgacggc cgaacctgta ggaaatttct tcagaaatgg tggaaaatat 4440
 gtgcaaaaaa gatgggttagc cggcgagaca gctcgccctc ttataagctt gttaccaccg 4500
 ccctacaccc aatcgtcggc agtgcctaat cacatattcc tcattggtac agtagccagc 4560
 cactatcttg gcaccatgat ctgcagtggg agagatcatg ggttcgatcg accgcgactg 4620
 atttactctg ctctgctctc cgattgtttg cctgatccgg ctgagttctt gggctgctgt 4680
 ttcttcttg ggctaacgga tctgaccgag gtgggtcacg gctcgtgtga agaggatcca 4740
 agagtcctga ctccatgggt ttcagccagc ctgagtgcg tacatgttcg tgcagacaga 4800
 tacagccaag aggatcatta tcacgtagat cgtgaccac caatggcccg tctcgcttcc 4860
 gtcagagcgg cgggatgagc tcgggagcgt cacaaccgac tcccaaggta tgcatttttg 4920
 ctgggcagtc ttccataaca acaatggcct gtcttacgta acgggcccctg acatatactg 4980
 gatcttgact gcaagcgcta cctgcagcca gccttatctt gcatcaggaa tggttcgccc 5040
 tctgcaacct cgtcacagta atacaagttg cgacagggga atccagttgg ccttcgagct 5100
 gaggtctcga gagaggagca cgtcaagtgg cgacaatgcg cctgagtatt gtattgcagg 5160
 aaccaatggc aacaataagc agtatgggct accgtcctcc ggtgcgcaat ccggattgtt 5220
 cacattcgag cggcatgact cgctcgatat gatcagcgat ccttgaattg gcgtcagaac 5280
 agtaaaagat cgcggggcgt ttatttattg caatagtcct cattgtgtgg ttcaactgga 5340
 tccttcacct caaggttttg acaatgacca agctttattc gtcagatgac tcaactcgat 5400
 ccgtgcagca tgcggcgtga ctggagtcaa attccaaaaa aaggcgatct gagaccata 5460

atcatggcag cagcgattgt gctgggag atcggaataa gtatcttgaa gcagcggatc 5520
 ctggagatag tagacagcat ggtcaaggag gctgacgtgc agtcggcttt cgccgtgttg 5580
 tgattttgaa gttccaggga agcactcttt gagtctagac aacggcacgt gtcgctgact 5640
 catcgccgta atcggcgcac aaacactggc tgagtcagcc acggcctccg aatategcta 5700
 gttcatctct tggggctctc acgggtctaca ccgagtcgca cactacaacc acgagagaaa 5760
 gacaccacca cgattagttt gcgagtgcat aatgtccttc acggcccgat cattacggca 5820
 ggtgcttaca tctacttcac gtaatttcca ttgttcacgg accatggcgg catccgactg 5880
 gagtgccaga caatacctta agtttgaggc tgaacgcaca cgacctgctc gtgatctgct 5940
 cgcccagggt ccactcgatt caccacatcg cgtcgtggat ctaggctgcg gacctggcaa 6000
 ctcaacagcc gtccttgat cccggtatcc agatgccga gtgacaggaa tggactcgtc 6060
 tccagatatg attggaaagg ctgcgaaac cctcccgga atcgagtta cagtcgatgg 6120
 cctcagtacg tatacaccta gagaaccggt agacctatc ttctccaacg ccgtcttcca 6180
 gtggctaccg cgggaccaac gtctggaaat catcaaacgc cttattcagt cgcagccttc 6240
 aggcggcgtc tttgccttcc aggtgccgga taatttggt gagccatcg acgtcacaat 6300
 gcgtgaaatt gccgccaatg gtcctgggtc gagcacgcta caatccgttg ctgcgaaag 6360
 ctttcaatcg ccacatgaac tgtacgatga actgaagccg ctctgtgctg aggtgaatat 6420
 ctggcatacc tactataacc attcgtgga gaaccataag gctgtcgtag aatgggtcaa 6480
 ggggacgggc ctgcggcgt tcattgacct tttgtcgag ccggatcggg agtctttctt 6540
 aaggcttact gggtcgtcgg agcaattata tctgagagca ca 6582

<210> 1795
 <211> 1065
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1795

gagcttggtg ctttcgcaa gcttgagccc gagttcactg ctctggcgt caagcatgat 60
 cggctctcgtg cgtggacacc gttgtgcccc tcatactagg tcccttacta actcctcata 120
 gagcgccaac ggactgaatc ccacaaggcc tggatcaagg acattgacga ggtcaccggc 180
 tcaaagctga ccttccccat catctccgat ccgagcgca agatcgcca ccagtacgac 240

atgggttgact accaggacac caccaacggt gactccaagg gtatgtggga tctaggaata 300
 tgctgaactt gagcttctct ctaaccactt tcccgaggt atgggtctta ccatccgttc 360
 cgtcttcac atcgaccctg ccaagaagat ccgcctcatc atgacctacc ccgcctccac 420
 cggccgcaac acggctgagg tcctccgtgt cgttgatgcc ctccagacca ccgagaagca 480
 cgggtgttacc acccccatca actgggttcc tggtgacgac gttgtcatcc ctctcccggt 540
 ctccaccgag gatgctcaga agaagttcgg cgacgtccgt gttgtcaagc cgtaagttca 600
 cccgagcctg gagcattcat cagttgtttg gagcagttga gcagttgcta accatctctc 660
 gtgcagttac ctgcgtttca ccaacctcaa gaaggaataa attggaaaat gatactcat 720
 aacctatcta cgactaccga tctcaagggt agggagtga cgggtggctat ggaaatttgc 780
 ctggataact tcctggtcgc agcaaaaaga aataaaatct caggcgtgga tttgtttatt 840
 tcgataccta atgatacaat gatcaaagat atcacgttat atgaacagtt tgtggcttta 900
 gttaccctcc gtaggatatg caaacgcaca ttttaaccag agtgcagctt tgaccctaaa 960
 attggtggtt atatatatg tggcgtagca acgaaccgaa ccgcgcaggc agacaggaat 1020
 catactcgtc accttgcata cgaccgtgga aattaatgca cctac 1065

<210> 1796
 <211> 3275
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1796

gatggagatg ttattatggc tgaggccgga gacactgatg ggaccggccc tgccgagtga 60
 gagcttcaga atcagatctg ctgcgccgca gtctatgcc ctgttaacac tcacggaaac 120
 agagttggac agcactcaaa ggtcgccaaa cggcttagat gagcacactg tattacgacc 180
 atcggatcca gacccttttc tcaacgtggg cttagataat gttcgggtcc gcagccgacg 240
 agggctctgtc gctccgttaa ccccgaggga ggtatctcga gatcaacagc ggccatcctc 300
 tacggaacct ccatcaagta gttcatcggt tcgcagtctt ccggacactc cactacccc 360
 agtagcgcaa aaggcacggc gcgaaccaag caacaaaaat cggggaatct tccccgacac 420
 tatacttggtg cggatcttcc aaaacctcga attgcatgat cttcttcggt tgcgcgccgt 480
 gtctctctac tgggtctgaga tactcaattc atccccggat ttgcttcgct acttggattt 540

gagcgtgtat aatcgctgcc tcaccgatga cgtactggcg aaaatcgtct gtcccttcgt 600
cggcaataga cctcgctaca ttgatatacag caactgcttt catatcacgg acgaaggggt 660
taatactttg gcgaacacct gtggatctaa cgttgtaacc tggaagatga agagtgtttg 720
ggacgtgact gcatccgcca tcctggaaat ggctcaaaag gcgaacggcc tgcaagaagt 780
ggatctgagc aactgtcgaa aagtttagcga tacgctctta gctcgaattc ttggatgggt 840
tactcctggc ccatataaac ctccagatga aactacaaag tctggtaaata ccgttatcaa 900
accacgatt cttaccccgga ccggaacggc agtcttttga tgcccagagc tgaagaagtt 960
gactctgtcc tattgcaagc atgtaactga caggtctatg catcacattg catctcatgc 1020
cgcttcaagg attgaagaaa tgaacctgac acggtgcaca accatcactg atcacggatt 1080
tcagttctgg ggaaacgttc agtttactaa cctccgaaag ctctgcctgg cggattgcac 1140
gtatttaacc gataatgcga ttgtatatct taccaatgct gcaaaacaat tgcaggaatt 1200
ggatttggtg cgcataatctt tgtctcttat tgtgatgtgc tcgctaatgc atgttcttag 1260
tcattctgct gcgctttatc agacacagca acggaagtcc ttgctctgca atgttctcaa 1320
ttgagatacc taaacatgtc attctgtggt tctgccatat ctgatccgtc attacgcagt 1380
attggactgc atcttctgca tcttaatcgg ctctcgggtc gcggttgctg tcgctgac 1440
ggggctggcg tggaatcggc agcggatggc tgcaccagc tgaaagcttt cgacgtcagc 1500
cagtgaaga atttggtacc ctggcttgaa tcaggaggaa ccagaaata caatggtaaa 1560
atatcattcg aactgttgc tgtgaatggg aggccttacc gatagccaat gctttccgca 1620
gtactatcca ccttggcact tttgtcgcac cctcccctat accaaatttt attgcttaat 1680
acagctttca tcacgatatg ctcttattcc tcccatctcg acttgattac gacttcttgc 1740
tttggtaact tcgtttgggt atccctgctg gatccccgcc ggagttatgg tacttgcctt 1800
cactggtcct tcaaggtttt ggtcgatggc gattacgaag cttactgcat tgccttcatt 1860
tccttggcgc gttggctctg gaatgcttat atcacggcct tattcgatct tcgttcagt 1920
cgtaccgtcc ttctatcctt tttttttttg ctacttttgc tcaggtgctg ggggggacag 1980
gcatgggagg agtttgagtc tgacacgggt ataacagtat ctctattca tattgcatgt 2040
tgagctggc caatttctga agattctacg tgtatcttag atttcttttc tttccattga 2100
atatgtggag tagggagttc agcgcgagg gctttttctc tgtctgcatt ctattttaga 2160

attcattgaa gctcaaagcg tgtagatgaa ccatttatct ttgtttagt aaaacaggat 2220
 ctttcgcatt cactccaggc ctcgttgggt gttccagcag ccgcttttgc gaccactggg 2280
 tcttatcgcg gaatcctggg ctattaatat ttgataagga acaggctgtg aacgggttcgt 2340
 gcccgtaag acattgtgag cctcaaagtc ctttagtatg ctatttttga agcgggtcagg 2400
 ccaacgcaga ctcgactaag tattcagaag tttatctcaa catccaacat cgttatcttt 2460
 atattttaat cgcagttttg agcatttgta tcagttcctt actgctttaa gccttaatgg 2520
 cccttacctt ccacggtt caacaccaga aacacgccac cgattctcca ggatgtcacc 2580
 gaagaggcaa cgcaatgtct acgacgagga tgacgaccac gattcatccg ctgattcgta 2640
 tctaagtaca gagtatctta cggtcgtcac tattgatgct cctacctata ctcttaccga 2700
 aactctcacg gaggtacaa caaatactga tacacctgcc tctccaacag aggttatggc 2760
 aaaagttcgc aagccatata tgcaaaaggc tggacctaaa aacgctgcta aaacactggc 2820
 tagaccaaga gagatagcag gcaggaggga gaggagactt ctccctgagg tcacaagcag 2880
 ggtcacgaca gatgatactg agtcctggca gtccgcatac atcccggggc catccgaata 2940
 cacgggagtg ctagacacac aaagcccaaa tagcccttcc atgcaaacgc cagttaacaa 3000
 ggacgacccc caacctgcta atactaacgg cagggtgtca gaatgcagcg ccttgccact 3060
 tgcgtaacct gtttcgcctg atgtacgaag ccctggaacc ctttctgcgc ggatgactgc 3120
 ccctgcccac cataggtagg aatggtgtct gctcctaacc aagcaacttt tattggtatt 3180
 ctttccccc aagcccttt ctttttacc accaacacce ttggttttaa cccattgggc 3240
 ttgaaccttt ccggagtttg ttggacagat acctt 3275

<210> 1797
 <211> 1459
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1797

ttcccgggtcg ataatacgac tcactatagg gatcgaccga gtatactagc ttttactaac 60
 tgaatatatc cacaattggt cgtcgaggat aggaacagtt cgaaatggaa gattagtatc 120
 aacaagcttc tggaagtgga ggagcacgtc tggtcaccaa tgtatggcct caaaggcaac 180
 attgattgca acagttcaag ttgcgtgcaa tgaaggggaa tgtgacaaaa acctagacgt 240

accccttgag ctttaagaccg gctataagga gacgaattat gcccatcggt cccaaaccgc 300
 actctataacc ttgctacttt atgatcgaga cggacagcat aaactgggct ttacttggtta 360
 aacggcatct agctaactgt gctttcttta taaggggaag taacatttgg gcttctatat 420
 tacctcgaga cgtcaaaaat catgcgaatc cggggcatac ggcacgagct tttgcacatg 480
 atacaggagc gtaatcgggt tgccgggatat gtgcgggaga gaacatattt accgccaatg 540
 ctttaggaagc cgtcgatgtg caatcgatgt tactctaaga cagcctgctt tatctaccac 600
 aaacttgctg atgacggaaa tggcgaaacc agcggccttg gtgaagagtt cgataaagca 660
 atggagcacc tgaatccctc acatcggtgac tttttccgga aatgggacga ccttctcacc 720
 aaggaagaaa cgagcatgat gagatttaag agagaactat ggactttgct cagccatgag 780
 cgagaagcgc ttggacgttg tttcggtaac atcgttattg agcctggaac agcctgcgag 840
 gacaaagatg ggactaagat caatcgggtac cgctatacct ttgttaagaa acaacagtcg 900
 cccacatttt cattcgctga atcccagatc accgtcggag agcctattgt aatttcagac 960
 gagaagggcc attttgctct ggccaatgga tatgttggtc aaataagccc taagcgtgtt 1020
 actgtcgcgg ttgatcgaag acttcacaac tccagaacaa aggcaagtgg atttgactct 1080
 attctgaacc aatctttcag ggggtattatg gagatagagg gtgacacccc tccatctgag 1140
 tctgcggaag agacccttta tcggctggac aaagacgagt tcagcaatgg aatggctata 1200
 gtacgaagca acctaattgc gatgatggag aaagatctgt tccaggctgg gcagttgagg 1260
 aaactgattg ttgaaggaaa gcctcctgcg tttaagccga acgttcctga gctgtccgga 1320
 ttaggcattg ccggcctaaa catcgatcag aaacaagcga tcaagaaggt tatgagtgcg 1380
 caagattata cacagggtgt gggaatgccg ggaacaggaa aaaccacgac cactggtcat 1440
 attcttcgag cccatgttc 1459

<210> 1798
 <211> 1967
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1798

ccattgactt gcatcactac ataccgcggt ttgagcacia agcttgacia cgacgacttc 60
 ttcaagctgc ctctgttcaa cgttagggtg aactgctgta gctgaaatcc ccgttctcgt 120

gcgctcagcc ttgctgggcg aagggaatgg ggatgggcg acattgcaag gagtactgga 180
 atgctggagg gaggcgacaa gataagacat ccggtttgcg tggaagaaat tcaggctcca 240
 gttacaccta gcatcatggg acgactaatg gccggggaaa gataaatgtc gcttttcagt 300
 tcatgctaga aatgcgaggt ctgccgtgag agaacgggct gggcaatcag accttggcgt 360
 cgtggtgccc tgacaaactc ccagtcccgg acacatccag agctctgctt tataatacgt 420
 caaaaagccc ggctcagata tcaaggcagc ctgcgagtct cctcaacggc gcaacctcct 480
 gagaccggtc aagtaacatg tcagccctga aagcgggtctg gagtcattgc gtctctttat 540
 actgccgtc gtaaaggga tcttggtgctg agtggcgctt gactcatcca agtgcccaa 600
 agccggccag tcgtctaagc tcaggcggtt atcggcatgt ttaggactgc ctgagataac 660
 taacaacgtg gcggtatccc aaatcccctt gcagacggag tcgcagctcc gggcccatcg 720
 gccacagaga caacaaactt aaaaagttct agatgcctca ttccaatgct tgtcggcgct 780
 cgaatctaga gatcatcctg atcttagcga cagcgacaat agatccgtca gtcgcgga 840
 actattcaaa cgagaataaa acacctggga gcgactttag tggttctcga gacaagacga 900
 acggccttga acacgaagta atcggccgag actgaggcgc aacagcatag ttgtgcgacg 960
 cgtggcaatg gagactatca ttgccatgcc cgcagaatct cacgctgaca agatggggga 1020
 tgatgcatca ttgcaaagtt tccgccagcg acccctctgc gtcatcatat ggagagcagc 1080
 agcaacaagc ccgaagacaa cgcagatgat tcaacaagc gtgcgacatc acctcagcct 1140
 attcttcaga cactcttgcg acgccgtctt ggagtgaag tgccaagtcg gccatcgcca 1200
 gctgcattct gtagcattct ggccgtgcca agcagcctca tgccaccgag gactcgggag 1260
 acattgctcc tggaaccgga agatcttcgt ggatgttact ctgtgcggta tccagagcac 1320
 gtatcggctc ggccgccatc gccattgtat gacatggttg atgcccga gacgccttgc 1380
 cccttgctc gccgtggtcg ccgtggctc tgggtggtgac attagctgca agtcatacat 1440
 gccgagagac gggttgcgag gaaaggtag gtacagtaca gcgtaaaaag tatcccgaac 1500
 cttcattact gatctcgttc atgaatacgc agaccaggac gaagaagagt ctttggcgag 1560
 caataatatg aaataattta gtgtgtccct caagcgacga ccaggcgctg aggcgcgaaa 1620
 ctgagctgac aaggataaac catgtccctc gcataataga cggctaggat atggattgtg 1680
 aggcacactc acccgggata gcccaattaca gtaatccgag ctcacttgcc cgtccgactc 1740

aaatcggctc ggacgggcac agccgcagtg aggaatgtgg tcagattcga acgccgtggc 1800
 ggtcggcggc aatctgccga cgaagcgaag agcgccgaaa aagagcacta cgattcgaca 1860
 acgagcaacc gatccaatgc ggcgtcgaaa gccttacttg agacggttag aggtcccgcc 1920
 ggctaaaatg ttttgcgcaa atgggggaag atggggaggg tgtaaca 1967

<210> 1799
 <211> 4479
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1799

tagacctgcg gccttgaacc ccgacgccac ggagtcgtta gaactatctg agccttcaga 60
 gcttccagaa cccgatgccc caccacgtcc catcgteccc ataattgcag catttgacca 120
 catgcgcgtc cgcgtccgcg atatgtacac actggaacaa tatgcacctg ccgttgagcg 180
 cctcttcgat atcatcgagc ggcctccaa actcgaacag aaccaagcgc gagaaaagcg 240
 acggcgtgag gtcgaggaaa acgagaaacg gaaggagttt aggcgggaga acaagttaa 300
 aacaaagcag gagcagatga gccaggagca aagggaaatg gcaaaggcgg agaaggaagc 360
 ccgcgtgtct gataggtctt cttctcagtc tcggcctcaa tctctgatg ccaaggcttc 420
 catctgggat gccccggaga gtgagagtgg gtggagtctg gatgagtctg gaaaggatgc 480
 ataagtttta acgcttggtg aggatctaca gcagaagcag gaaggagcag ggcggggcca 540
 gttgggattt ttagcggatc ggagatcaag aaggttgggt aaacgtgcca ctcttttggg 600
 ccaggccatt tgccatatat atagtatttc ttctttcctt tcactctcat actctctgtt 660
 tttgtgagtt gagggattga agtacatttt agatgcata taaaactcag acggtgtaca 720
 tagacgtatc cgggctcttc ttggtaacca tgcactttat aatcctcggg attatagaag 780
 ccaggttttc ctgagcaata caatgtaatg ccttagcctg attaatatgg accatactgt 840
 tagccattag taattatgga accaatcaaa gttgcaatca ctataatata tacattctca 900
 gattagactg tgcagtgttag agaaattgta tgtacacacc ctgtaaccg cgaccttcta 960
 tcacctgaac gatactcaga ctagaaaccg gaaatagcct tctctttctc atccttgcca 1020
 tacaaccct caccagatt ttgaacgcac tcgtttttcc aattcttcgg cgtaaattta 1080
 tcaacgattt ccttaaaccg ctccaatgtg cagaacgtgt cgtcgccagg taagtgattc 1140

tctggcttca cagcacagcc agggatgcgc acgactcggc cattgtagcg aatacggacg 1200
taattctttt ggagggcttg gcgcgctgac tcggggagag attcaagagg cgtgcgggcg 1260
gtcgaagagg gagggagatg agtcttgctg gagtttgag aagatgagcc ggacaagaag 1320
gagaagaggc cactgccttg cttggggcgcc ggaagtgcgg tatctgtgct ttcagacgtt 1380
gagtctgcgc gagagaagag ttctatggca atggaggaag taaaaggagg ccatctgtta 1440
tccaggttac ccagactgcc tagaatggcg gcgagagtgg tgtcatggca tccgctcatg 1500
gcgaacttga ttgccttgcc cttctccaca gaggaaccag aagcggcggc ttggctgcgc 1560
cagccgccat ctacggcagt ggcaaccatg cggtcgacga tatcgcccat cagagctccg 1620
atgccaagtt tacggtactc cgtgctttcg ttataaccgg tgaaccactc atcgacggct 1680
atgtgctcca tataagctcg ggcttggta ttgtagaatt ccgaggggag tcttgtggcg 1740
gggccatgag cgtctgtggc attaattgtg tcctgtatac cagatagtcg tgggtgagaa 1800
tcaacagcca ctcggggtga attctcaggc atccatttgc cataaacact gttgatatag 1860
tccatttctt cggaattgtt ccctgtcagc gaataacgt gagtatatgg tcagcgtccg 1920
agcttgcgta cgcacatttt ttggctgctt tatcggcgaa aagtctagca agctgtctga 1980
atcgacggca gctgctctcg ttgggaaaga gcgtctctc tgacacagac cgcgctataa 2040
tactggcgg ttgaaagtcc tctgtacgtg cactagcggg atacatcccc cagaatgcct 2100
gttgagaga ttccagagct cttggaatgg tcgtagcacg gagatacatg tcctctgtgt 2160
cggacttgat tttgggcagc aatccgagct gggtcacata cagatgtcgc agacgttggc 2220
cgagctggta ggtcgtctca cgtcctttat ccgttaattc gccgtgctga ctgtttggat 2280
cgcaattaga ataggctagg atccacgtag actgccccta ggcataactt gccatattcc 2340
ctcaatgtca ccacctgcac cgacagtcac tattgtttgg tccctatcgc cgaatgtctc 2400
gaacttcctc cgccacttga aggcgttcca tgacgaaagg tcctcattgc tcgcggccat 2460
ctggaccatg cggcgggcaa cattgcagta aggccagtct tgggaggaaa agagtgggtca 2520
gcgggggaaa gcgaagacga gaatcgggat tatcgatca attacatggg ggcagtcctg 2580
cctagaagaa tagattagct caagtaccgc ccacacgcaa ttgaattaag ctgtacattc 2640
tcaaagcgcg aagataccgg cgtgcgctcg cctgagggtt ggagttagtg aatcgacttg 2700
tgtagattgg ccgtggaaag ctctatctgt accatgtcgt aggaactggg aggggaagtt 2760

agcagcgaga cctcgattgg gccatttcca aaaagacaga tcggcacgta caacttgaac 2820
 tagctggagt ttcaattcct tcgggtagag cttttcaact tcattcttggg tgtatggtcc 2880
 gcgaggtatg aggggtcgta ttttgaagga acaatagcac ccggagtgcc cagtacaaca 2940
 ggaggtgaag gagagaaagt tcccagcgat cggagacgga cagaagacca gcggtgatga 3000
 cgcagaagca gcagcagcaa tagccaatca gctgaccgc accggttacc tgcccacgct 3060
 ggataaacag cgtactccat cgagggtcag taatctctgt gctgttcgtc gcttgcctac 3120
 aagctttaat tgccccaagt ccacatgatg cttgtatctg gttataactc aaaaaagctg 3180
 gagagttatg tacataaccc ggagcggaca gcattagacg ccaagcctta tttatccccg 3240
 gcttatcgcc agagcacaac ctcaactact actgtccact gcagccttct tcaagtttct 3300
 ctctcaacgt ttccacttga cctgccagtc gatctgaacc ctgcgaaagg aaccatttga 3360
 acatacacct ccatcttaaa gaattagctc ttcgaaagac aactcctatc ggccaggatt 3420
 cctctctatc ttctccgcac accaactcca catagcacag ccaggacct tttatgtgtg 3480
 cctagccaac gggcataaga tatatatata cactcagaaa ctacctttgt gttgactgaa 3540
 ctactttatg cccaacatgg gtgtcttgtt ctgagctgag tcgctaaatt gttcgcctgc 3600
 agcgagactc tgaagtcggg agtgcgggcc atctcattac ggagacatta aactgcctaa 3660
 atgggctttg ggaggccctt acaattacac tagacgcttc gaattatcag accttaactt 3720
 ttattctatt ggtgcgcgcg ccgctcagt accttgcaat cctgagcaag aactgattc 3780
 ttcccttcat cttcggccca tctcaagggt cttcctggaa tacaacattt ctggtaagta 3840
 cttattctga tatactgtat tctctattcg aggattgacg ctcgataagt gaacctgaat 3900
 agccattgag atcacgggt cgggtgataa agtggacatc atggaggtaa gaagacgtga 3960
 tttccttggtg ttatttgtgc caacgcatga tatctggcat tgctctgagc ggtgtgggcg 4020
 ccatccatta tcctcttccg aaacaccagc ttggtagcca caacggcaac ttaaacttgg 4080
 gaatgcgtta ctggtttccct ctcggcttac gggatggtgt ctgctgctag aggtcgtagc 4140
 ggcaatgtac gctcggtatg tcttctcttc cataggggtt tcagattgga cacttatcca 4200
 atggaacccc gttgcgcgta atgccacggc gagaatctta cactgtatct ttcactggta 4260
 cccggtctcg atagatatc attctcaaac cgcattgatt tgcaagaggg acttgccagt 4320
 tacagaacca gtacctagct aagatttgag aattcctgca ggtcgcaacc acagcttcag 4380

ggcaggccac gaggggtcaaa tcccccaagc ctcatgattt caagcctcgt cttctaataa 4440
 taaaacttcg tcggtatgat cctagttgaa agaccatat 4479

<210> 1800
 <211> 3064
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1800

tgtaggctga gccgattacc cgcggagtat gcactggaac tgctcaagtt acagtggaga 60
 aagattatth gcttactggt gggcctgatg ctaggcata caatttcattg taccattcac 120
 ccatctctcg cctggaaatc ctagtacacg caaacgcccc attggcctct cagtatgcca 180
 ctgctccctt gcaaggtaat ggcctagagc aaccgacccc ttgctcttcc acgcgtgtcc 240
 gctggctttt actatgcgtc ctgagaccaa ttgggcctga gtatctataa ctctagaatg 300
 actatgcact atttagagcc ttctttggag ttttttcgta ttggggcaga taatagttga 360
 gatagcgtag ggttcgaatg tcatagcacg aacggatggg atgcgggaat agggcgctga 420
 cgcaggagcc tgcatttcca atagtataaa tcaacgaaac agaactgacg aagtataata 480
 tgttccatca gcgaccagca agccctgggt cattgcgacg gcatagtcta gtgtggatcg 540
 gccagcagaa attttttgcc ctcaattctt ctgcttcttc tagaagggtg gttccggtga 600
 tgaagctcgc aacgcggctt ccaggatctt cacggcatgg ccgtttccca acagtctggg 660
 ccttgcgacc gggtcctgtg taatagcgat gtgcggatct gaatcgcccc ggcaaggctg 720
 tgggcccgtt ggtgcagaca taaggcccca aatatatgga gttgcccctt ggcctagccc 780
 ccctgattcg ccttatatth tagcaacgtc ttttgtgggt cgatactgtt atcacaagat 840
 tggctcggta tatgccgtaa gatcctgcta cggagcgttt gcgcgaatct ggacatgtga 900
 caagctctgc tgtggccgca gtcggaagat acttcaacct gacaacaaag gtctggcgcg 960
 ctgcgccatc acagtatggg ctatgacacc ggcggttgaa ggagtggagt tctacattg 1020
 ctggacgagg gcctctaata gaagggaccc tcttcacgg tcaatcgag ctgacattga 1080
 ggggatatcg atctcagaaa gagatcagcg gtttggggat atcacgcgaa tggtttcaag 1140
 ctgcgctgct gagaggcatt ccacatatac ccgacctcc tcacatatat tgccccggcg 1200
 ctggggggagt gcggcaacgg aaacgcttac ggatgtcggg caggatgcgc cgacatgctg 1260

accctcgctc gtggacagta gaacaacggt atgaaattgc gactgagaac ggccagctag 1320
 caccagcaaa atatactctt agtcggcgca taatagcgac acacataaac cagtcctat 1380
 gacgaaaggc gtgggttttag aggtggcggc tggcggagtt tagatagatg ctgacagata 1440
 cgcgcatagg tgtcccttta tttaggcaag agggctctca ccggggctag tgtcgtgggt 1500
 tgagcgtctg gaaagcaggt tcggacactc tttccataag gctgatgttg cggaatcccg 1560
 ggccatagaga aattccctcc agagaaacta cttataggg cgtttgtcgt gatcaatgta 1620
 caacgatgaa cataaggagc gcggtatttg aacctgactc ttcaaattac gatggatttg 1680
 tagcactatt taccgagctg tggctatgta atgatgaacc acgcgaggag atagtcgccca 1740
 atcaccataa aaccatccac cagcatcaag aagttagcag atggaacgat ctgccttctc 1800
 ctcgagctcc acaaggtttt tgtttccatt gctcgcagcc gatctcaca tggcacatgg 1860
 cgtttgccgc acatggcacg aggtcatctc gcgcagccgg gtcctccagc ggagaatctt 1920
 cttccaaaca ggtataccct gtctactgtc tgagtgaatg atacctgtcg acttcagcta 1980
 cctcctgtga gtgatgtccc gggccttcta gcccacgac gaaacactcg atcggagaac 2040
 gcttgcacg gaacaagccg cgagtcctgc ccgccggcc agacatgctg caattgaaaa 2100
 tccagaccag tagccggaca gtttgcgta ggaggcttc tggcgccgca tttcccttgt 2160
 ggcccagcgc cgcagctggc gaggatggat atctggcgtg ctgcgcgggc gacatgatat 2220
 ccgcgaccgt tgcaccccag caacggtcag gtaattagag catgggggtca cagacgggac 2280
 tgctcttgaa cgacattatt ttcgttattg caataattta tatggctggg tcatcgccgc 2340
 gtggtagagg aacggaatcg acatggagtc gaaggcgaac aagaaaaaaa gcgttctctg 2400
 gagtggcgcg tcaagaccga gtaccagtgg gagtatatct tagtgtgagg aagtataccc 2460
 tacagcggga ttgaaggtgg ttgattataa ggatgttggt gtgtacgttg aggacgacaa 2520
 gtctctcatg gatatggacg atgtgcggct gggcgtgcgc aggaggaact cggccaggaa 2580
 aagagtatat gcgccgggga caacaatgaa taaaggaccg agaaatcccg agatccattg 2640
 ttctggctgt gcacggcgct ttagaacaag acttgggatc tcctcgactg atattctgca 2700
 ttgtcattc gttttgaggg aaaggtacca agtcatgcct aacaaccgca caagtcctgt 2760
 tgtggcaggg tacagagcct cccaatggca ttgaatcagt cagccactag aagaccccat 2820
 ttattgggtc cccaagaacc tctctgtgtc aatgagccgg ccagcggtat cttactggat 2880

ctgggcaggc tgggcttgct gggcgccatg ccaatctcct 'acaaaaacac gagcgaggtc 2940
 ttgcactgcc ctgacgatga caataacaaa aaaaaaaaaa aaaccaactc tattcagcat 3000
 ctatagatag taaatctact cttagccaat tgcaacaacc acctcttgtc ataagtccga 3060
 gtgt 3064

<210> 1801
 <211> 3781
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1801

gtttataaaa aaagatgaat ttaaattattg aaagattaat tgtatatgaa agtaaaagag 60
 aaaaatggaa ttaagaaaaa taattaatag aatagaattg ttaaagggtc ataattttat 120
 tatagtgtta atactaggga attattcaaa gggagagaag gaaaaagatt ccgatgtggt 180
 gagaaaaggt taagttttca atataaggca ggaaacgttt taaagtatat atatgccttg 240
 gaggtttacc cctattgggt aaagggtaaa aaaattctta ataggaggaa aaatttttgg 300
 acatggtttt tggggaagtt gacccctttt aaccattttg aggtcccggt cttttcgagg 360
 gggttaagtt ccccttttac ataaagcttc caagaagtggt gccaacgcag gggttcttac 420
 ccttgccagc caagaagagc ttaacagtgg gttcactcag caaatcgtca agaatctgca 480
 cgttgtgttc accatgaacc cgcctgaaga aggcctatcc tccaaagctg caaccagtcc 540
 ggccttggtc aatcgttgtg ttctcaattg gatgggagac tgggccgacc aggctctttt 600
 ccaggttggc tctgaactta ctcagtctgt cgacctagat aagcctggct ttgttgctcc 660
 tgatagcata ccagtggcat accgtgagct gagcctacct gcgtcacacc gtgatacagt 720
 tattaatgcy atgggtttaca ttcactcactc gcttcaacgg ttcaatcaac gtctgcagaa 780
 gcaacaagga aagacaactt atctcactcc gcgtcactat ctggatttcg ttgcacagta 840
 tgtgaaactc ttcaatgaga agcgcgaga ccttgaggaa caacagcgac acttgaacgt 900
 cggctctagag aagttaaggg aactgtcga gaaggtcagc gatctacgtg gcagtcttgc 960
 tcagaagaag atgcagctgg agaagaagga tgcggaagcc aatgaaaagc tgcagcgcat 1020
 ggttgctgac caacgcgagg ctgaacaacg taaggcagtt tcgcttgaag ttcaagctgc 1080
 tctggaaaag caggaaaaag aagtcgcctt tcgcaaagac gtcgtgcttc acgaccttgc 1140

cagggccgaa cctgcagtct tggaagccca gaagagtgtc agtaacatta agcgtcaaca 1200
tctcactgaa gtctgttcca tgggcaatcc acctgctggt gtgcggctcg ctttagaagc 1260
cgtttgtact ctgctcgggc acaaggtcga tagctggaag accattcaag gaatcgtacg 1320
cagggatgat tttattgcca gcattgtcaa ttacgacaat gagaagcaga tgacgaagaa 1380
ccaccggttg aaaatgcaga acgagttctt ctccaaggag gactttacat acgaacgagt 1440
taaccgtgct agcaaagctt gtggctctct ggtgcagtgg gtcgaagcgc aggtcaacta 1500
ctctgccatc ctggaccgcg ttgggcctct gcgcgatgag gtcggacagc tcgaggaaca 1560
ggcactgcaa accaaagcag aagcacaggc tatcgagaac acaatcaatg atcttgagag 1620
cagtattgcg acatacaagt ctgagtatgc tgcgcttatt agtgaaacac aggcaatcaa 1680
ggccgagatg gagcgagtgc agttcaaggt cgacagaagt gtacggctgc tggatagcct 1740
gtcgtcggaa cgtactcgat gggaggaggg aagtaaactt tttgagactc agattagcac 1800
acttatcggc gatgtttctca tcgcagcggc tttccttgcc tatgctggtt tctacgacca 1860
gcagttccgt aaggcgatga ctgaggattg ggttcagcac ctggttcagt ccggcattag 1920
cctgaaaccg cataatccta tcacagaata tctgtccaac gcggatgaac gtctcgctg 1980
gcaagcgcatt cattgcccg tcgatgatct tagcacagag aacgccatct tcctgaagcg 2040
ttacaacaga taccgcgtca tcattgatcc ctgaggccga gtcactgagt tcttgagaa 2100
ggagagctca gataggaaac tcacggtgac cagcttcttg gacgattctt ttgtcaaaca 2160
gctagaaaagc gcgctgcgtt tcggaaaacc gatccttatt caagatgctg agcatttgga 2220
tccgatcctt aaccacgtcc tcaacaagga gtaccagaag accggaggtc gtgtttctcat 2280
ccagctcggc aagcaggaga tcgattttct gccctcattc aagctcttcc tttcgacgag 2340
agatccctct gccacttttg cgccggatgt ctgcagtaga accacatttg tcaatttcac 2400
catcacgcag agcagtttgc aaatccagtc gctgaacgag gtcctcaagt ccgagcgtga 2460
tgatgtcgac cgctgccggt ctgatcttgt caaagcccag ggagaattca atgttcatct 2520
tcgccagctt gagaagcgct tgctgcaggc cctaaacgag tcccattggca atattttgga 2580
tgatgataat gtcactgaaa cactcgagac tttgaagaag gaggtgctg aaatctccag 2640
gaagatggct gagactgaag gtgtcatgac ggaagtcgaa gagatcactc agcgctacag 2700
tatcatcgcg cgctcgtgca gtgctgtgtt cgcggtgctt gaacagctac accatatcaa 2760

ccacttctac caattctctc tccagtactt taccgatata ttcgagtcag ttctgcacgg 2820
 caaccacac ctcgaaaatt caggtttacg gaagatggaa gattatcaac agcgattca 2880
 gatcattctt cgcgatctgt tcgtcactac ctaccagcga acctctttgg gagtcattca 2940
 gaaggaccgt atcacttttg cgatgctttt ggcgagggcg gctccttacc ccatggacaa 3000
 aagcattatc gacaccatcc tcgatgaatc cgttgaaggt acggatttgt cggccaatcc 3060
 cgaggcgaag gtccagggtga tgagcgcgtt tgggaacatg tcgctattta aagcgcattc 3120
 tccttctgtg actgctgagc aatgggatca gttcctgggc gaagaattgg cagagaattt 3180
 cgttcccaag gtctgggatg agaacacgtc agagcttgac aaactacttc ggctcgtgct 3240
 gctcgtcaaa ctttgcagaa tggatagatt cgttccggcc gctgagcgat tcctcgtggc 3300
 cgtctttggg cgcgaacttt atgaggggaag caccgatctc aaagacatcg tgggccaagt 3360
 taccgcaact gcaccaatat cccttagctc cagccctggc ttcgacgcaa gctacaaggt 3420
 cgatgctctc gtcgagcgca cgcacgcgac atgcgcaaac attgctatgg gttccaacga 3480
 aggtctcgag agcgccgaca agcgatcagc aacgcgcct cgcaggaac ttgggtccta 3540
 gttaagaacg tgcaccttgc cccctcctgg ctgcagagtc tcgagaaacg cctcgcctcc 3600
 ctcaaaccac acaaggattt ccgcctgttt ctctccatgg aatccagccc caagatcccc 3660
 gttaacctca tccgcgcctc tcgcgtcctt atgtacgagc agccggctgg tgtacgcgca 3720
 aacatgaaag actcgcctc gtccctctca actcgtgccg gcaaagctcc cgttgagaag 3780
 g 3781

<210> 1802
 <211> 4400
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1802

atgcattatg cggtgccgaa agctgagcaa aagtggctgt cctttttttt tataaaaaaac 60
 atttctatcc ctatatcaga tccatggggg atcattacag atcaaacgac ttgtttatac 120
 aaggtcaggg ttacgaattc aaggttgaga aataacccta agtatgaacc caaactcaaa 180
 agtaggtaac cttaacctta cccaacctct tcagcctctg taaaatctct aacttcctca 240
 actccagaaa caagtcctga tcatcagcat cctccaaatc ccccgagata ttaatccacg 300

gcgtgccctt tgatagcacc aaatccccat tcattttcgc cgacaacaat ggtgacacaa 360
 tgttgctagg ggcagtggca gaagccgcgt caacaacccc cttatgaccg ttactcagat 420
 ccaccttctg agtaggcttc ccctcagtgt ctctgtgctc cgttgcgtgc gatttatcgc 480
 caaccacccc tctacacatg ctcaactgect tttcccagag ggaaaattgc tcgcggctta 540
 tgtcctgact cgtctgcggg cggaagaactg taccctccggc acggttgatg tcgcggagct 600
 cggcgaagtt gcgccagaga ccgacageta ggcttgcggc aatggcggcg ccgagggcgg 660
 ttgtttcgcg catcttgggg cggtaaacgg ggatggagat gaggtcggct tggatcttct 720
 gcattggaaa gaaggatata tcagtatgga gtctctgtat ttaggcaggg gtagagagtt 780
 atccgttctg tacctgcata gcgagatccg agttgctcat tcctccatca acagcgagct 840
 cgaataggcg gtgtccgctg tctttctcca tggcattcag aattgccttg gtttggaagc 900
 aggtcgcctc cagtgttgct cgggcaatgt ggcccttctg ggtatattgg gtgatcccaa 960
 ctattttgta ttagtattag catatgaggg taaatttgag aagttccagc ttacatatag 1020
 ttccctttgc atcatcgatc caatacggag cgtaaagtcc gctaaacgcg gtaacgaaaa 1080
 cacaccgcc gttgtcttcc acagttaaag ccaagtcgtt aacttcctta gactccctga 1140
 agaactctaa attattctga aggaatttga ttccagatcc accaaccgct atgcttcctt 1200
 cgagcgcata tactggctgt ccatcgaaat tatacgtat agtcgccaga aggccgtgct 1260
 tggagataac tggtttgctc ccgacgttgt acagcaggaa gcatcctgtg ccatatgtat 1320
 tcttggccat gccgggggag aacccttttt gccctacaag ggctgaggac tgatctccca 1380
 agcatcccat gataggaacc cccgcaagcc tgccgttggg gagtgcaccg taggctgtga 1440
 catctgaaga aggaacaatt ttgggcaggt gtactcggcc cttaatgcca aagaaatcca 1500
 gcaagaagtc gtcgtatccc agtgtctcta ggttcatgaa cattgtacgt gaggcgttcg 1560
 tacaatcaga gacgaaaaca ttggcagcgc ttccgccgtt cagtcggtaa accaaccagg 1620
 catcaacagt tccgaaggcc aaggtgcctt tttcgtatgc ctctttgacc ttgggaacat 1680
 ttgtaagcat ccagaggagc ttagaggaag aggaataggt tgagagcggc agaccgcaga 1740
 tctgttgaag ttgcgatgct ccgggtttct ttttaagctc atcaacaaca gcttgcgagc 1800
 ggggtgctggt ccagacaatc gcattataaa gtggctcccc ggtttcatgg tcccaaacaa 1860
 ctgtagtctc tcgctgattg gtaattccca ccgccttaat agattgttgg tcgtaccctg 1920

tgatttcgaa ttgtttaaca gcttcttcga tgcaggtttc cacagaagat acaagctcta 1980
 gcggatcgtg ctctgtccat ctgccaactc cgtttagcgt gtcataaagc atcaggaaca 2040
 acagtcctta ccccggttta ggatatactt gcttgaattc gacttgatgt gatgcgacag 2100
 gatctccctc gcgattaaag attagaaatc gggtgctggg gggtccctga tcgatagaac 2160
 caacaaaaat ctttgctggg tccattatcc tccggcctcg aactcagagt ctgaatgtga 2220
 tgtttatcgc ggagaatatt ctgatttcac ctgccgactg gttgaggtaa acaggcagaa 2280
 gggggagaaa aagtgaggat gcgtaagagg tgaaattgca ctctctgga tgagataccg 2340
 gagggagtaa gtgcgtctcc agctttgttt aaatacttct ttgacaaagc atgagtacga 2400
 cgagtggttt cacaattttt cctgtctgcc atccaatctc tgcgggggag atgccccga 2460
 gcacggaggg gtgaatgccg agagtataat ctcacctata cccatgctag cgtcacgaaa 2520
 atggaaagcc actgctatag gaccgtcttc gtaaaaaggg cgcgaaacag cgcctcgacc 2580
 gataccgcct gagataaagg ccaacatgag cctaaaattg caaaccagtc gagatttcaa 2640
 tccatgttct cgaacttctg taggtatcct gaacttagcc atgtgtttgt ctcccatgta 2700
 gacaaagcca aatataaccc ttgtgacctc gtcagcccca acaggctggg tgcgttcgtg 2760
 gggaaagatg ctcggtggag taattgacga tctgagctgt cggaagactc cagtcgccga 2820
 tccggtagaa cctgtgacaa gggcgaccat acggaccaca agctgttctc agtccttgtt 2880
 atctggaagc caccatttgt cggtgtgcta atgttactac tgaggagcgc ccggcagaca 2940
 tgggccgaag cgtacggcag catggattct ggtggtccaa catcgaacaa atcgtgcca 3000
 agtccaacc ctgctcgta cccacctcca caactccaca tgacagcaac aagatggacg 3060
 aatggcgatt gaaacatatt gacctatgag atgcagctgc cagcgctacc attctcagtc 3120
 tccacccaaa cattccagaa catcatgaac gagaccacag aacggcgatt gatgtcacag 3180
 agccgcactg ttccttgggc actactatat gaggatggc gtccggatag aggcgtgtca 3240
 attctcgtcc ctgcggaagg taacagcggc tgaacctgg atggagttgt cagaaatctc 3300
 gtacacaacc agttgcaatg ccaatgaaag agaccaggct tggggggact aattaccttg 3360
 aatggaaacg ctctcatcct ggcgatgctt atgtctgcaa gtcgcacaaa cacagtttgc 3420
 gcaccgagga ctggtgtgag atccgacgcc cgagatgcga atgtgacacg acgctcatca 3480
 ggctttctct gagagtttca acgcccctca tgtgttgaat gacagctggg ttgcattctg 3540

gtgtagtgat ggagtattgt caggcaaattg ttcacaaatc tatatcccag gacaagctag 3600
 atgatattca aacgaggatg tagatgacaa agtcttgctc tagaataaac aaagaatcgg 3660
 ggatacagag ttaaggtaat gatgtgtgga aagcgagttg aagaagtaga ggcgtcaagg 3720
 gtaaacagag cagaagaagt gaatggttgc cggccagtgg aggccctgcc gtctgtttgc 3780
 acaccccccc tctattctg gtccataaac atctctccta ttttcacct tcttctctcc 3840
 ctctcgcttc ccagctctca atcttaacgag tcttcctga tctctcattt gctccagtct 3900
 cctttcccag gcttggacct cttaactgag ttccgtctct ccctaatacag aaccatcgtg 3960
 ctccatatgg ccagagcatt tgactaggac ctctgcata tctacagcta gacagtgtct 4020
 ttcatggat ggttccagta ccataattta gagaaggta caccatgtat gctgatgatg 4080
 tttagatgta ggatatgttg cacaccttgc acgaagacct cgaggcaciaa cccacggcgt 4140
 tcccttcccta tttgaacacc tcgcccagca cttctgagca tatecccttct ggtaaagaca 4200
 gaagagactc atcatatcct atataactctt ctattttact aaatgggttac agttatgtcc 4260
 gctgttaacg gaatcgatat cccaagaaca tgcaggtttc tttgcaaacy agcaataagc 4320
 gagacgccgt cctcggagtg agtaaggcgt ctgaaacaac cgaagcagag cctacagcaa 4380
 tcgatgctca tccatcacca 4400

<210> 1803
 <211> 4046
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1803

aaatataaat tggatttttt gttttaaggt tttttgggtg tacaataagg gtttttgatt 60
 taagggattt cccttaatcg acattgggtt caactgtctc ttctcacggg cagaggaatc 120
 tctccccgtg gaggttcacc cgccaatcgg gcgttttttag actctgcgtc cggccggtag 180
 gtctcgtag ggtccggatt ggttgaaaga ccgcaaaagg ttgccctccc cttttgtgaa 240
 accccaattt aggccattg gaaatgaggc tggtcaggac tgctgggttaa acgggtccaa 300
 tgaagcgtaa cttccaaaca ggttcggcca aaccttggca ggtgggcctt taccgggggt 360
 ggtccaaaag gttgggttgt gcatccatcg ttctcatttc cggggcggtt gtcaggggat 420
 gccaaagatg gccacagctc ctacagttcg atcatgggtt ttattgcccc atctttggaa 480

ggctttatgt agggtcacca cccagaaatc gtgctttttc tcagattggg attgggggttt 540
 ggccgcatcg cgtggaagcc catgcaacgt ttacctctca taagcgtctg agcgcgtag 600
 ctaaggcagc ctccgtagag agttgggtcag cacgtataat cgtcatgggc cgatcattgg 660
 atggcgctcg ctgaccccag cggcagaatt cggatgatccg cagtacattt gctgggtgagt 720
 gctagtaaca gatcaacgag tcgacgtcat tatccagccc taccactcat tcgcagccag 780
 caatgtgcat agtacgtcgt ttacgaagt atacaggggg cttgggctct tgactggctg 840
 acgggagAAC gacggagatc aaccgggtga caggagttca gatacaagtt gtaaatcaat 900
 cacagccaca gcgtgggtac agggattcga tcattcaagc attgcagagt gctccacgac 960
 caggagcatg accatgcagg ttatcgtttt gactggctga aatgcatttg cgggctgttg 1020
 tttggctatc acagcgcaaa tcaaagcttc tctgcacctc gcaggatttc agcagagaaa 1080
 gtccattcat ggagccgtag attgtgtcac ggttggctgt ccaatctacc tgacgggtccg 1140
 gtgggggtgct ctaagaagtt ccgcagagct tcgaatagcc ttcgatcctt cgaaagggcg 1200
 ggcaaaaatt gcatacaaca tgccaaataa tccctcctgt ccgtcaggat cgctgacctc 1260
 caccagcacc atctgcggga gcctggaggg agaatatgga gtggatgggg aacttgtttt 1320
 gcatagtttc gaccctgaaa tggagaccgg aggaggccgg agggagggcc taaaagaccc 1380
 aaaggggtaa aaaggcctga tccaagtctc caactctagt tagatagggc ccagatagaa 1440
 gaaaaacgag aggacggcgg cgtttcagga tcgcacctgg gcagtgggca catgggcaag 1500
 ccggcagctt gcccaaacag gatccagaca ggacatacta gtgggggaact aagaataaaa 1560
 tcctacgatc acaaagctgc cagaccctgc ccgaggttcg acttcccatc aggggtgggca 1620
 tatcattcaa tttttctctt tgccggcttc cggatcatgc taagaattat tacttaagaa 1680
 gtgccaaatc caattcgggg ctcatctctc tttgagtaag gctttgttca tcttttgaca 1740
 tcgccgctgg tcgcattggg agcgaagatg gaccgcaaca agaccctccg ctgtccgcgg 1800
 ggaccgccac ggtaatgata tcatatcgcc attagaggcg gctaggtaga gaagaaaagg 1860
 aaaaggtcga aactcggatt tggaggctcg tttactcgac tcttctgggg aaactaaagg 1920
 gtaagtggca ggggtccttg aaggggttag ctccttacag actcgttaca tcttaaaata 1980
 cggggtaaac agtacagagc gcagagtcac cagcagcaat tggatttcta aagtcgcagc 2040
 ccctaaaact cagtgactat ggatgcccaa gaaaacattc agacattcag acattcagtc 2100

atgatctggc attgccagta ataatagata tcgcgacttt ttcgggtgctg agtgggttttt 2160
tgctggctgc tgctcttcag agggcccact gtagggcggc gtggggccgcc gaaaggcgag 2220
tgaactagat gagaggccga actgccagct attcggccct agtctctttt gagcacaagt 2280
ccctgtctaa taataaacct gactgttttg tagggtaatg ctgatattat tatccgagtc 2340
cgactcgctg caagcccaac gcccatcctc caccgctgac ctcaccaccg tttatggatc 2400
cgagatggag aatgaccgag tcgtagtagt gggattgtgg gaaaaaagca gaggtttgat 2460
catcccggtc cctgggtaga ggctgatgcg gatgcgctgc catgggttga ctgctgctgg 2520
ttcgaggtyg ctgctgtcat tcgtccagat cagaataata taatataatc cagtgcgagt 2580
aaatagctga tgaaatacta gagttataat aaggcagaat atatggtccg tttctgatgc 2640
atctgtcgag tgccagtcag ttgcgaatcc tcgagtcacg gtctcccatc ctggagcccc 2700
cgccacactc cgcccagtg cgtctgtgct gctctctgac cacgcttagt gcgaaaaagg 2760
gatcttaagc cattactatt atattctctc tcgtctctct cttttctttt ccgttttcct 2820
aatttatcca tcagtcttct gaggtacctc actcgctttg gtcaccttaa atccttccac 2880
tccgccaact ctacccttct acctcgctc atctgctcc cctcccaca aactacctg 2940
ttatggcatt ataaggatac actcaagatc ctctgctgtt tttattcact cgcttacatt 3000
cgctcgctat tacactcgct tggtttgga ccgaagtaat cctacgttcg ctacgttgg 3060
gttggtgtgt tgatctaaga cgcttagaga gacaaccttg aaccaagatt ctgggatcga 3120
attctcattt tgttgtaacc cagaaaaact actgaaagaa ggagattacg ctgaaaaactc 3180
taatatctaa ttacgcata caacgctctc gctcatcggt gattcggttcg ctattgcttt 3240
tgctcgcggc ttgcccgtga ctctccacgc ttccccgact tatccaagac gaccaagaca 3300
aaacatctcg agagcccgt tctcggtatc gcaccgcagt tggatatctc tgtttggtgt 3360
ggtccactga cagctgcgcg tttgttgtca tttcaagtct ccggctgtag agcaacaccg 3420
tttgttccgt ggacggcgca actgaaacaa tcgccagagc gcgcttcttg cgaccttcag 3480
catcttgctg tcatcagggg tgagcatctc attatcccaa cctgctctcc aaagggtggat 3540
ctcagcttgg tccgtcttcc aatatcgcac ctgttgctgc cagcccttgg aaagggttga 3600
gctggacca actggcgtyg agccttgtct tcgttgagga cacctccttt tgacagaaag 3660
agcaaagatc tttgactgcc tttttggttg ccaagttagt agcagagacc tttcctcgcc 3720

actgaggctg agtgccttga tccgccctct tcgaactctt cattaccccc tgctggcaga 3780
 cgggcttgaa gaaggcccg cagattgcaa acgtggcctg ggaattaatt ccctggacgc 3840
 aattagggga ggtgtggcgt ttccttaacc gttgccgctt tctgtcgagt tcataaactt 3900
 gaaccggcg atgtttaaac cttggagctt ggagcaacca tatgcgggtg gggccccac 3960
 gtgattttcc cttaataact taagccggca gggaattttt tttaggaaga gaatctcatt 4020
 tttcctgtct aatatttttt agaccc 4046

<210> 1804
 <211> 4664
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1804

acagtgggtg ttgcaagtgt cctaccgcta ccggtgactg cacattacca ggcattagta 60
 tatgccatcg ccgacaaggc ggctgatctc atacttagct aattgatcgt ctgcactctg 120
 cttgacatga tttgttgtat agcttgtaca caaggccaac gtttcgtaca cctcgttgat 180
 cgtagagcat catttagaga gtagttcgat ccatacccg gccaacggcc cattgtccga 240
 tctagagagt ggcacagtta ataaatcata ccattcaact cgggctgggc ccggaactca 300
 gctttgatcc gctccagagt tataaaggta agccagtagg aatcaaacga gcccttgtgg 360
 tgccggccagg accggagggc ggcaatcgca cgacttcgga ttcgatcgtc tcggcaaccc 420
 atggccacat agtacagata tggcaggatg ccggtgtcca atatgacagt cggcagtcgg 480
 ggggtgtctgt tcataaagtc tcaacggcgg aaaggtgggc ttcatactcc ggaatgtagt 540
 agtctagagt aggatcctcc cttttcagga ccgtccta at cggaagactc agactttgat 600
 aactaagcg tagtagatct gccccgtgtc gttccttttg actgagccgg ctgccccaaagc 660
 agaaccgctc cagccgggta ccaaaaacag ccacacgcga aaggagccac agttgtctga 720
 tgcattggagc cataatccag gaaaatctcc tcttctgata gctcttcaca ctgccccaaag 780
 aagcgaaatg ttgccccag gagaagggtca agcgcttggc gtgcctcctg aagactggga 840
 tatcctccgt gaacagccat gcggtccgtc agctgtcag cctcatagcc tatgggtcaac 900
 gttccatgga ctctaaattg caaagactgg acttccagac tgagaaatgc tgcaaccaca 960
 caaggatgga caaacgctc gcatccctcg atctttcgcc tcgtgcagaa ttcttagccc 1020

gctctctaga tgttggaagg catcatcata ttgaacgcgc agcagctgct tgagaacaaa 1080
tagcaaacag cacaggagca taacttcacg gaactgtggg tcctgcggtg aacagcgccg 1140
actgagcagc gtaaatagacc gtccacactg ctcgagcgca aatctatgcc aataattttg 1200
cagattctgt ccaggtaatg gtagaccgtg aatatcggag tccttatgga tggcgctcag 1260
agcgactaca gcatggtata ccgcagcctc cgagtggctc atctggggca ccaggacctg 1320
cgagggcgat gagtcgaaga acagggagag tgtagggacc atatggttcc ggaaatgtgc 1380
gaagcaccgc tgctcatccg tcgttacagc cagggaaagg cgcttgggac cgccgggtga 1440
aatgtctgac ggacatcaac tgggacaagg gatcgatgtc gacaaagagc gattgcccta 1500
cataccatga atctgactgc attttcacga agcagtgagt ggtagatgca aggtagactg 1560
cttgaccagg taatgagtcg aatttgtgga cggcgacgag gttaagacgc agcagtaact 1620
aaacgccgga aataagcatc atggcgaaga caagtctgga atcgaaaaca tgtcgggaca 1680
gaagccgagc gtggttctgg caccttaaac tttccggcgc tagggccaga agcacaatgc 1740
tcgtacctag cgcctaattg gaaatacgac tctggagttg gcaaggatcat tgcaattgga 1800
tgacgggtgt cccaggagag ctacgtccta ttgaacttct cgctcacagg acgaccatat 1860
cttcatcctc ttcgaaaaga gggattagtg tgtctccgaa atcctatcgc ctttggaaaa 1920
cattaaaagc ttaactgaca acataaggaa ctgcagtacc atcaacgcgc ggtctagtgg 1980
gcgatttacc agacaacatt gagattgcac gcctatttct tgagaacggg gtgcacctga 2040
gcccgatgct gatgtggacc agcttacctg agggcggccc ttcttgggta tgctgaaatg 2100
gcgctcatalc tcgaggtgag ggagatacat gaagatgcta gtgagacagt acacttgcac 2160
acgagattca gatcctggga atcagaggta tagtaatata ttcctaagga gcagtcctgg 2220
aaatcaggag tgcctacgta acttttttga ccacagtaga atccttcctg tccttacaga 2280
agatattggt gcacggaagg aaaccgaaag atctgatacc tgagaaacct agctggggaag 2340
cagcagttgt tgaagactgc tacaaccgcg gatctgactc aggacaaaaa cgagaataaa 2400
acagaacaaa gcaaaaagag tgactgacta gattccaaag acaaatgcc aatagaggacg 2460
cgagagtctt actttgccga gtcctttccc ttccctctat cttccttgcc tcccttacca 2520
aacttatcga acgctgacg aagcacattc cactctccc ttcgaccgga caacttcgaa 2580
gtctccctct ccagcacacc acgactctcc cgctcgaggag ctggcgtaga cgccgcactc 2640

gaagtgctcg aggtcgctact gcccggttgtc tggggccgccg cgccaccggg ttcaaagtaa 2700
 tggctcggga cacgtagggg atccggtgaa cgtcgaacta cgcccatggt gggtagcgga 2760
 cgttcgtaca tcagcctact ggtagccgag aggggaacgg gaggggaacg ggagcggttg 2820
 gccctatccc ccagcgctg gctgagtag gtgtagttag accatggccg gctattacct 2880
 gtattggtga ctgtggggct cggggcctgt tggcttgccg ggctctggtt tgagccctgg 2940
 cggttagaat attgcctatt gttgtttcct gacatcttta tggtagaggg cgaggttgag 3000
 aaacttggtg cagattggat agcagtgaat ttctgtttga tggtagaaag cgagattggt 3060
 aaggtagttc tgtgaatata ggtgccttgg aagggttagc ctggagagaa aaagtatgat 3120
 gagcacaagt atatatcctt gcaatcgga ggatttatag tgtgaacaca ctttgtcttt 3180
 agtatagaaa gcaattatac ataaaggaat gtcagaaagt tctgctccgt gacgagggca 3240
 tagaccttgc tttattatat ccaatgaaca ccataaatag actgctgggt gccaaaggat 3300
 aactagtaa agccatggca gaaagagaag tcaaagacag gctcaaggcc ggttgtttga 3360
 gtctaccgta aagcagtgag ccttgtgtct attctcgtca actgactgtg tcttggaagg 3420
 gaatatctgg gtataggcgg aaaacctata tcgactgcct agatgcgatt atcgattgct 3480
 gccgcttatg gctaataata atctgtactt gcgtatatcc agagcatttc ggtctggcca 3540
 cgcacaaatg gtattcataa cgagagctta catatattcc cactgagaaa gaccggcttg 3600
 tcacttgca cactctgcta atgcacatac aatttcaccg gatcccatat cgacaaagag 3660
 aagtcgaggt caaaggctga ctccctttct ggcggaactc tggctgccaa ggtctccgcg 3720
 cttggtcttt gtagccgcat gcttgtgtat tcgccttcat gatggccttg gctgcaacat 3780
 ctgcggcaga aatattcacc atgaatgatt cggctttgct aaggaagccg tttctcggtc 3840
 ccggtattcc tgtcaattat atgcacagca atcctgcaaa atgcacgta ttgttctgtc 3900
 ggttattggc tgtctgtgac atctttctca ttatggaatc tgtctgatag atgattttga 3960
 ttcttgcttc gtcaatacac tccctgagtg ccgtcctgag aacacgtaat aggtcgaaga 4020
 ctgcgtagct ggcagagcga acacatgaga tgttcctttg tgcggttcct caggaagtat 4080
 aacgagcact gttaggagct gtcttgcat gaggctaccc tagatattga gttggttcac 4140
 cgctggacga aactttttga gggctcggtt gttcttcagg gcactctgaa cgagacataa 4200
 gagtacagcc tggactgtgg ctggaaatcg agacttcacc agctggcgat aatgcgcagt 4260

ccaaacaaaa ggcagagtg caaaagtaca aggatgattt accttgcggc ctggatggtg 4320
gaggggtacta ttagcagccc caggaggata aggatgagga accaacatgc aagggtcagga 4380
gtcaagttha gaaaaacaag aaggggcggt taatagagtg cgttaagtaa agagcaacta 4440
gaatgcagta tatagtgtag atttcgcggt gggggcagag gtcaaggata tgattgtgaa 4500
cataccataa tccatttgca atgtctataa gctctgataa accgcttctt aaatgtctga 4560
ttcctatgct atgtctgaac cttgaaggtc gcaagtaaac aacataatca gcatctgact 4620
gtaatgggaa aatgcagtct aggctgctga cagtttggtt agaa 4664

<210> 1805
<211> 2667
<212> DNA
<213> *Aspergillus nidulans*
<400> 1805

tccagcgcgc gcctacacac ctacagacaa ctccgcactt cctccccgcg ccattcccat 60
aaccgagat atcctaacgc atcccgtttc ggaacgtgac agagttgaga cgcgccgtcg 120
tcgctacgag cgcgaagatg ctatatcccg cagagccggc ggtttatggc gcggccgcgg 180
ccctttcagc aacaaaggct gtttcggccg cgggggtcga gaaggctgcc ttcggcgag 240
gtggtacgcc gctatctgtc tttttttcct cgccattgtc gtcggtgcga tctcctcgc 300
tacgttcttg acacgcaaag gagacggcac gcccggtcaa tcggcatggc taaatttaac 360
gggctacccg cccatgccga caggcatatc aacaatcgcg ggccccgaaa acacggttca 420
ggactcgggg tgtatcacgc cgaattcgat gtggagttgt gcgctgccga aggagcagca 480
ggacgctaata gaaccttatg caaccaatca gccgaatttc cgtgttgaga tccggtttca 540
gaatgggacg tacgatcata gtacgacatt ggcacacgg tcgatccatc gcagaagcgc 600
gtaccagctg tttaacccta acccggatcc accaagtgtg gaagaacaag cgttcctggg 660
ccagtatacg gataagacgt ctagcccgta tgcaggcgaa gagacgccct tctacatcac 720
tgttctttcg gcggaatata taccctcttc gtcattcttc caatatagca aacgcgacaa 780
cgacacatca acaacgaaca acacatccac cttcccagac gtaacctcgc taatcccttc 840
tccatcaaaa gccagcgacg gtaccgctgc ccccgcaacc ctctaccgcg ttccctcttc 900
gcaaccagtc cgtctctata acccgggcaa gaaagacgag cactacggct tctacacata 960

ctttgacaga tccatctttc tgtcctcctc agccgctctc acaggaataa aagagaataa 1020
 caataacgac acagatggcg gatccaccaa ggaagatgct tccgtgcgct gtacatgggc 1080
 acaaacgcgt tttctcgttc agatctggac aaagggtgac gaattagggc gaagtgtgtt 1140
 tgcacgctct gtcaacagca ccaccagtac aagcgccaac tcaacgtctt catctccatc 1200
 aaccgcggtc tcctccgcga cagacttcac ccgccccggc tccttcccct acccaataag 1260
 cataacactc gatcgacacg gcgggaatgt cgaaaagaag aatctctact gctacggtct 1320
 ggaagaaaat gcacggtata acgcctcggc agtcaaactg caactggagg accgtgcgctg 1380
 gaacgggaaa attgtgaatc gagcgcttgg gatctttaat ttagggtcgg cgaattcaac 1440
 taatgacgag gcatatcaga ataaggatta tgggtggttat gatggtgagg tgggtgggtg 1500
 taagtgtcag tgggttaatt ggggtggggc tgtttaatag gggttcagctc ttatccgcta 1560
 gaaatggatt gagaagatta tatatgtatc cgacggtatc ttgatcatct ctttcataa 1620
 attcggcgga gcgcatgcga gttcaagtga attcgggac tctgaccgac cagccttatg 1680
 acgattaata tggtagtggg agactaccgg agtacacagt actgttattt taatacaaaa 1740
 attaatacta atttaggttt atacattcat gatgcgttca atgggtcccgt ttttcagtt 1800
 tcggcatgta ccaaacgtag ccccggttc aacgctaagg atagatgaca gaggctgcct 1860
 acagtagata gacaaaatgt accaggaatg ctgagggctc tcatcaagcg atagtcaaaa 1920
 agagagcatt tgtattcttt taggtttgga attatagatc cagcgggtca taagcagcaa 1980
 agtcagagcc agtttcagat tatattatgt ggtgaaagac taaatgacca aacgataagc 2040
 aaagcaccat tctgactcga ccatacaga acagaaagta agcaagtaga gaagcacagt 2100
 ttaagttttg caaacgcagc gcaatcccct gataccttaa aacccaaatt aagccaaata 2160
 gaacaacca aacgcaacac cagccagact agcaaggctg gggataatca gcttagaacc 2220
 tgggttaaca ggggtttctg tgggttcggg tccagagtga acaccatctt cgcctccgtt 2280
 gtcccatgt gggcttgctg aggtgggttt gtgctgagcg gaagtcttgg tcttgtgcgc 2340
 agaagagctt ggggttggtg atggggtagt ctttgacggc gccggggtta gagtggggcg 2400
 gattagaggc gtgcttgatg cggagggggc gctggctgag atgatggggg cacttgccgc 2460
 ggggctggac acacgagcac tggattcagg gagatggacg cttgacggga taggtgcgtt 2520
 gctactggaa ggagcggaag cgctgtggtg ctcggaatg acgctgggct gagagctggg 2580

ctgagcagtc ggttgacgac ttggctgggc tagtagtagg ttgaatacta ggctgagttg 2640
taggttgacg acttgactgg gtagtcg 2667

<210> 1806
<211> 1205
<212> DNA
<213> *Aspergillus nidulans*

<400> 1806

tcatggcttg tcgggcctga aactcgcgtt gatgggccgc tcgggcgctc gtacgtctcg 60
ccctaggata aaagaatatg tgttgcagta aaaatgcccg tcgtcgaatt cgagtttggc 120
gaatgcttgg atccgcggct cggatcctgc tactgatccg ctcccgttat gcgtgccacc 180
ctcagtgtaa cccagagccg acaagttcgc gttctgagaa taataagcag agttcaccat 240
atcattctgt tgtaaaccct ccattggcgt ccctggggcc gttaaagtcga ttggagggaa 300
aaggtcgcta tgatctaggt tcggttttgc gaacagtaag ggatccgtta aattgtcaat 360
ggggtcagtt ctggctagaa cgttatcggt ttgctcgggt gtcgaaaatg gcagccctga 420
ttgttgaaat gccatgtctt ctgtttgatg ttgaggttcc gccggctgac tttgatctcc 480
gttcttcggc tccgctccgg acggcggaac atctaccctt tgttttgttt cccaattccc 540
gttggattca tctccaaatt gctgcttctg ctcagtatcc tgcttatctg agacctccaa 600
gccttccata gcctgatctg agtctgtatt gggagcctgc tggccgccaa gcaactgggc 660
caacaaagca ctggcggcgg actgacggcg gagatccgac tggaactcct ggccggttga 720
aagggcatgc gaagcctgat cctcagcctt ggacttgact gctaccatgt cggacagggg 780
ggacaagcca ttggaagacg atgagtgggc gggggcagaa tcgttgcggtt ttgtcgattg 840
cggggacgga aggtgatggc cgttctctgg cgagtgtgc gaccgggtgt aatcgtaaa 900
ggacgacaca cccggaccag cctctgaagg atgatggccc accgctggcg ctgtcatggt 960
ctgcgacgat gacatgaccg ggagtagggc ggctgggatc tggttggcct gtaaaagaag 1020
ttctcgagcg gacggctaaa gagaggagaa cgcaagggcg gtgaaggggg aaatcaaagt 1080
catgggcggg catagctcg caatgaaggt tcgtgttggg atttggcagt tctcaatctc 1140
tcatcaatca gactgagtac gagacagaca taagatctac acaaagatga ctcatcacag 1200
tatac 1205

3202

<210> 1807
 <211> 2208
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1807

```

tagtaacggc ggccgccagt gtgctcagat aagagcatct atgtcgtgga cgataagaac 60
gccccgttga cggtcgatcg ccgcttatgt gagtcaattt tgtttcggag ctttattgat 120
ggagtgctaa cgctggttga ttgctaggta ttataccttg tactttctcg agtcctatgc 180
cgacgctcga cgcgagcaga ctaatgtcct tttgcgcgat tttgaggctg gccggctccc 240
tgtgcgaata ccgccggata ttcgcaagag aatgtatcag gaattgcaaa ggaaaatcat 300
gcaatctccg ccctttacgg atacaactac gctcatatca acccatcact gtttgcgctt 360
gctggtctct tggctacgtg ataccgtccc accagacgag caagacgtct cagacgacag 420
ctggataggc tcgctgctga cagtgtcacc cttccaacgg ctggtggaat atttctcagc 480
agaaattggg gacggcggga accagcggat gcagcggaag gatttcatgt acaattttca 540
cagggacatc tcaactgactg aaaacgatga gatgaactcc cgggtttttg agagcgcgcc 600
gaatgtgcat ctccatcgct cgggtccagga tgtatggttc gatgctgcca ctgctgagat 660
cgcgaagaga agggctggca accataggaa agagaaagtt atgctctatg acggcgtgcc 720
tttcttattc ggctgccctt actgcaagcc cggtgctggt gatggatggt atactccgtt 780
aaggctacat tgactaacgc tatattatth gcttggttgc ggcgttttgg tttagaccgg 840
tacatgagca ggttgtttat gcattatgcc agcgattctg ttagagtacc ctttcataca 900
ctacttacat gcatcctgtc agactggtag tcgagcatat ataccttgca gtgggttctt 960
agcacgtggt tgtttgtatt gtttgcatcg gcgcgtctcg gcatcgaaca tctaggttaa 1020
ccatacaatt aagtattgtc ctaatccggg aattgactgg gtggttgagag taggtgtaga 1080
gtggctgtac agttccgaca tgtgatttta aattgaaagt cccttttttc tatccaggac 1140
gaaaagggct cactaccacc actacatata taataatcaa ctcgaccaat atggcaagcc 1200
cataccacct cctcaacaca tcatggacat cccaccgtct ctccccactc cactacgaaa 1260
tcaacaaaaa tgcggagtca tattccctcc tcacaaacag aaccgcccta gacacttacg 1320
ccgcgcgcct gagagactac ctgactaact ccctggctgt ggccggcgcg ccaactttgc 1380

```

aacatgaccc agcaacatcc gcaaccctcg gcgcactcca atcatgtaca tgggaagcta 1440
 tatcatccct ttccttcctg gacgcgagca tgatttccga gcatggggga catagtgcac 1500
 ttgagcagaa cgaggaagaa ccggcaggcc tcctaataac cctcacctac gaaaacgcca 1560
 catacaaagc cgcccttctt agctctgggtg ctgtctctag gaaccagagc caagaccaag 1620
 aacaattgca gaagcagaga aagcgcaaac gagggcgtcc atccctgaag tcatcaataa 1680
 cgacagtatc cgcacaaaca cacctcccc ttctcctttt acgcctcccg aaaccctca 1740
 gggagagctt attttcgttc cttagctcga acttcgacac gtatgtgtct gccttacgga 1800
 tctcaagcca cgggctttgt gaaattctgc aaagttatct tagtggattg accccagctg 1860
 ggccagtga cgcgggtgcg gatgtaggag agattatgcg cgaattacac ataacgatct 1920
 cctttgcccc gccgatagca ccctcgctga aggcgctgac tgtttgtatt ccgagggaga 1980
 cgtctggggc ttttatacga gtgccagggt ctacttctta cgcaggtaat gccgggactt 2040
 ccgtgctgtc tggactgtca gcgtacttat cgaaacatct tgctctggat ttgagattgc 2100
 cgttagtgga aggtgcagcc gctactactg ctgggtcttt gctgacaggg ggctatgtgc 2160
 ggctcacgac gaattgcgtg tgctgggttt gtggttacct ctgagggg 2208

<210> 1808
 <211> 2135
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1808

gatagaggtc atgtgatagt agagtatcat ttgcagattc taaatcagga cagggtgagg 60
 agagagcagt taaacgagat gataggataa gtgtgacggg gtcatggcat ataagtataa 120
 gatcaaggag gtgcagagga tgacgggaaa gagtcgagga agactccagc aagtatgaga 180
 gacacgttat agcgaagaga caaggagcgc aaggtaaaag ttggagcgag ataggaagaa 240
 atgatgagca gggataagtc aacgagttac gcaaagacaa taagacagaa acaagtagag 300
 tagaagccaa tgagggactg gtcagaacaa gaacaagcga gcaaggagat aagaggatca 360
 aagaaaggag cgagcgtgga tatgcgtgca ccggaaagga agacgagaat aggagggaga 420
 ggaagggaag agagcaggac ataagaggga gtggagatgc agagaaaggt gaaggtagga 480
 gggatggatc aacactcacc atatattcag ctggtaccag tcaacacctc agccaaatcc 540

ttggagcgac ttgcaaccg ttctgagtat catcgatttc caggtaagtc ctcaagagct 600
 caataaagtt gccctgttt ctaagtgtct ttctcgctta gtctgacgga gcattcgacc 660
 atccttttagt ccctttacag ctgtcgatgat tgtattcgcg gctctcgata cacccttcca 720
 cgttatttgc cattaattga ccaaattggac attgacccaa gccggaggaa caagaagcct 780
 cgccctttgt tggaaatccga gcgtgagcga ctggacgagt tcatcgactc tatccattat 840
 tcagcaaggt gcgtacatta cctcaaatta ctttcagctt ctaaaatgcg cagatactct 900
 gatgatcaat ttgaatatcg ccatgtccag ctgccgaaga acatgctgaa aaaaatacct 960
 gccgactact ttgacagttc caaagggacc ctcaaattat tatgggaaga agagtggcga 1020
 gctcttggtta tcacacaggt acgcattatt attccccggc aaagaattgt ctaaccctat 1080
 tatagagtct gggctgggaa cattacgaag ttcattgaacc agagccgcat attcttttgt 1140
 tcaagtatgt tcctacagtc ggccatagcca gtctacgtgc tcacagtta cacagacggc 1200
 ccttgaatta ccagccatca atccacaaat gaacggcgta ttccgagctg ccgactacgc 1260
 gttcgcagcg ttacacggg cgctgacagt ccagacaccg aggaagagcc atctcgacgt 1320
 gccgctatcc aatgcacatt agaattgtcc cggcaattca aaactccgtg caatgagttc 1380
 gataaatgga atatggtatg attcatataa gcaagatctc tcgtatgtcg gctaaagcgt 1440
 gagggtcgtt aaaaatcatt ttgtccttct ccattgcctt tactttgggc ctgaggattt 1500
 tcaatttacg ttccggccagc cattactccc accgagtagc ggtggaactg ctaatccctg 1560
 gttcttcaat gtcctataac ctcaaagtca gtgctttacg aggcactcgg gacttttagg 1620
 cttaggtatc gcacattgag atacgtgtt ggagagatat gaactccacg acttgacttg 1680
 ccctgtgtc ggtgttagtt gcgactctca gaaaggacgc taagcacata ctttgaccat 1740
 taactttaaa tcattcagtg atcttatttt ccggtgttca acttttcacc ctttacggac 1800
 tcttggaat tatcagcagt ctttgataga ttttacatat accaattatt ctcggtttcg 1860
 cgattgatcg gccgttttag tgcagttcgt gacacctttt tgccggactt tggcgtgtta 1920
 aaaaggttac tgactccaaa ttgccggtat tttgggattg aaaaaaaaa cgctaaattg 1980
 ggcatagatt gttttcccg ggaaatcccc gcttttttta caaaagcggg tgtggaaacc 2040
 cctatctggg aagatttttt ctctcctaa tgcaggttgt atactctccc ccccatctt 2100
 tctctttttt tgggcgtcc acgagttttt tttt 2135

<210> 1809
 <211> 3451
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1809

```

aaaaaaagaa aaggaatggt tccttccaag tacggccaat taacctcttc gcgtgagtgc 60
gcaaatcaaa aggccaagag tggtttcctt tggcctaacc ggggacattg gggtttcacc 120
accagtatta aagttgctag ttaattattg cccaaaacct gcggaaaaaa gcctcataac 180
tgaaggcctg atcgatccca ttctcgccaa ggctttcctt ccgccatcgg acagatttct 240
ggccgcgtca ggtcaagacc aatatccggc cctctttgct cggcgaatgg tcttgatccg 300
aaaaatgggt tgcggatcgt ctcaagaaat tctcagcagg aagttgcaga gcggtaatgg 360
ccgctttcct tttgagccat cgatcataag ataaactcgg agacaaattc ctcccttctt 420
tgagatctgt ttgctcggag gaatacacc tgagcccatt ctccgtacaa gccgaagcag 480
acgttgactt ttgcgcaacg tttaacctca acttctcatt ttcactgaat tttgtctccg 540
acgtcccggt tgcggcgcc gcggaaactt cttgctctgc aacctccgat tcggtcttcg 600
caatatcccc tagctcaaca ggtgacggag gagccgattg cgactcgata ttcttcgcaa 660
agattgttcg acgtaacgag tatccgcggt ttcgggatcg agagcggcca acggtatctg 720
gactctgcgg ggacgtagga gagagcgctg agcgcggtga aagagtcgaa ttcggcgcac 780
ggttggcatc aggagaggta gcagacgaaa ggctttgggt attcgcgata ctcgatttta 840
tcgagagtcc tctagacgac ggtcgccggt cctgctccca tgaagcctgt gtatttcctt 900
ccgcaattgg acgtccaaa tcagctgaaa aacggacatg ttgttgcatg aacctccttc 960
ctgaatctga aagtgttcga gagggagaaa gcgaggtccg tcctggggcg gctatacgca 1020
gtgaatgact tctcgaaggc tggggtgggc gccgaggaat ctgtgacgtc gtatcggagg 1080
gactcgacgg ctggtctaga gagattcgcg gttgttgggg actccgattc tgggtcgaat 1140
ctggcactct gttcggttgt gacatggcaa tgtcacttgc tccctgtacc gaaaagtga 1200
aaatatgacc ctcttttccc tactatcctt caaattgaat cctttttcga ctccagcctg 1260
gtgtaataat caagtggctg gtcgtacaag acggtgatcg gcggggcggt atgacgtag 1320
gcaggcaacc gaactcatct ttcagagcga aagaggggat gctctgtgac gtgcaataga 1380

```

gaagagaagg tgtatgtaca gaaaatatac aagaccgtgc gaggggacga aaagcaaaga 1440
 gcgagaagaa actgggtctc cgcaggaagc acgtttgcgg tcggtcaggc acagaacaaa 1500
 aaagtccgga aacagcaacg ttgatcgacc tctgtccccg tggacgatat ggaagaaatc 1560
 tcagcagcaa cgatcgtata tacgacaata aaaagagaga aaatttacag gagaacagaa 1620
 gaggatgaaa agacgaggaa gaaggatagg ccaaagttga atagggattg ttgaaacacg 1680
 actgaggcag ggccgggctg ggggcaacgt aaccccagtc ggggctggat cttggaagtt 1740
 ggaagttgga tttggaccag atggcgcaac gccgccaatc ctctttggat ggcgaggtgg 1800
 aggctcctg cgtgcctagg tacatacatc aacggttctg acagggcaga acggacgcca 1860
 ttttgcttta gctatactta aagcacagcc ctacagcact agtatcacta tctactccgt 1920
 acgcagtagt agatccccag gaaaatacag actgcggata aaaatccgtc caagacagtt 1980
 ttgcggtatg agagacagac ttcgcccag accgtcgcaa ctcgcaaggc tgctataatt 2040
 aagcagtatt cgagtgggtcc accggggccag acgtctgcac agcctccagg gtctcgcccc 2100
 catgctacca aatcattatt cgtccaccaa cctcgcctct tgctacgcgt cagctgttcg 2160
 ctgccacctc aattcgatgg tgactagagt ttccgatccg tcgaatcttg aaatccgtgg 2220
 aaggaagcta gaagtccgtg agccccaaagt gagttcgcgc tcgtaagtgg caagcggagc 2280
 acaaccgctt ggcgtcggag aaacttccgc tcaggtaagg attgccaccg gtgtttttcc 2340
 gtttatctct tcggtcttgg acgacgaaga ttgccgtcca tatacttggt tgttggttgg 2400
 tgtagacggg acatattgga tgaacaaagt gaggatatat tccatgagac ggcttttcgtt 2460
 tcactctctg aatttccaag accgggagac gattgcgatg ctgtcaacat ggtcaccgac 2520
 gtgcgccttc taacgtatca gcgatatcga acgttcgttt cgtttacgag gtcacgggc 2580
 tggtcagaac caccatgagt ggattggctg cctctagcc gcgtcctttg cttccttcat 2640
 tttctagtct ggccctgact ctttccatct gtcttcttgg ctgggggtact gtttcgactt 2700
 tgtccgagag ctcaggtaat acttctcgac cgttgtccaa aacacatcac atgcatccag 2760
 cacacatatt cgatatatgc tccaattatc gaatgtggag ggctcgaatc gacgataggg 2820
 cggagaaggc gactgtgaac tattggccga gcttgaacca ctatagtatt tattagcctt 2880
 gcacttatcc ggcgatgatga tatacggaca tacttccttc cctttttact ctgtacgcgt 2940
 taaaatcaag ctcgatcgta gtcacgggtc cctattgcc a tgtgtgttcg tctcactct 3000

ccgacagctc cggcacaaaag tcttctgata gatcctcttt cttcgtaaaa cgacaatatc 3060
 ttcactcagg ttgattcgga gaatgtacgt aatgagttct ggaggatatt ggtatgtgaa 3120
 gttagtactg aactcgatgt agtagaccag caaccactgt gtatacctgg tttgaccgca 3180
 tcacgatcaa gagtaggaac aacacgaaaa atgatatcta aagttgtgaa tggaagagaa 3240
 ggaggcagat ttaaagtgag aaagacaacg catgatagag aaaggttagg aggcaggttg 3300
 aagtgtggaa tctcgtgcgg cgagaatggt ataacgctgc cttcgccta ttcgagctgc 3360
 tgacacttcc taaagtcagc tagacatggc actaattggg aatgaaaggt ataagcattc 3420
 aatggatcag caccgtactt tgatgagtta t 3451

<210> 1810
 <211> 4514
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1810

agagaaacga tgcacaaata aagaagaaga tgtgaaggat ttgatttttt aggtgccaac 60
 tggggaataa aaatgttttt tgtgcgtcta aggcccacgg aaaaaaatca tctcaaattg 120
 ttttaaggaaa ataaagtttt ccaaattaaa gagcttgctg taacgttcgt tcaaaagagg 180
 tcacaatttt ggaatctccc gttggggccac cccaaattct gacaaataag tttccggcag 240
 agacttatcg gaccttcaag tgggagcatt ggtgtccgat agtaacgctc tccagattct 300
 ctgtaaagtc tcttcagctt tctcgttgat ccattctgct ccttacaaaa attctggtaa 360
 ggtctttgat tccccatgat gaagccattc attgagcatt gtcattgtagg gcctgctcga 420
 ttcacgaaga agagtttcta caagcgcttt tgtcgtcgga tcgccggaga aagttgccag 480
 tcgctcggtc agtaagcgta gtacattgcc tcctttacat atttttttgc tagacattgc 540
 tccaggaata agatctctc cttctctaag ctgttcgaga atgttatcaa cgtcgtcaaa 600
 gtcgtcaatc gactcatcaa taccctgac caagagaccg tttcgtctca gcagctcctg 660
 acctaaagag tacaattgag ctaaacattg gctggtgggc atggtatgaa gatggagtac 720
 atggaggggtg aaattcgggt tggttgagaag ttgtgtctcg agctgggcaa cgaggatcaa 780
 atagtccttt aataattttc gaatcgtagc gcatagggcg tggctcactg caccgtactc 840
 tgcacgactc tgaacctcaa cgaacgcctc cagcgcactg taatgtgttg ccattctcaa 900

catggaccgt gtaagggtccc tcagagtagg atccagccca gacggcagtt ggaaagccgg 960
tcccgtcaat ctgtccttct ctgcagtagg gtcattattga gcctgggtatt gaatgtattg 1020
gccttcgaac cccatgaaaa caaacaatag gtccctcaga atcgccttct cctgcgcatac 1080
agtagacaaa tcgcgtagtg gtttaggttg aagcgattga ggtagagttg aggacaacgg 1140
aggtagcgat acacgactag ccagcggcgc agtagttag ggcatcaggg aggcgtgcgg 1200
gttccatggt gctggtaaga gtcaaaattg tagatattca gtctggacga atgtcttacc 1260
atctggggtc tccttttctt tcttcgcga attgggactg agaggcccgg cagtattagc 1320
cctccttgac cgcgacttat ctcctcccc tcggttccct gcgctggggc actctctcac 1380
tggatttctc gttcggcctt gcatcttttc tttagtctga ataacgacgc gttegggtgcg 1440
tttttcagat gtgacatgct ccctaggaac tttgtcttct tgggttgacg tgctcccggc 1500
atgatccata ttttctgctt gcaatggagc tgtgccggcg cgtagaccgg ctctctcagc 1560
atcggcgacg cgactggacg caacgcgggg tcgtggcggg ttcattgtggc tgggtgcggcg 1620
gtcattgatg gacatgggccc gcatcaaata gaagaaattg acgacgttcg gcgctgggga 1680
caagaaattg tgctggctct agccttgccg agtcccgcg tttggttgga gcggtgggtg 1740
gtgttgctgc cttgatgctt gagatctccg tcaggcactt gcgacttgcg tagccatcat 1800
cgtctcagag cttcatccag agcttcagct tcatgaaact tcctaccctt acgtcctcca 1860
ccctgactgc taattcgaga tactcctttg gagtcagcta ttatcctagt caatccggat 1920
ttcattgttc aaagatataa tctaaaatgt tcacgcgcg atcgggaatac ggtaagctcc 1980
atcagacctc ctcttaatac ctgcaatctg acctttcttc ttagaccgtg gaatcaagta 2040
ggataccttc cctctataac ctccgatacg ttattgcaac cagtctaact gtgataacca 2100
cagcaccttc tctccggaag gtcgtttgtt ccaagttgaa tactcgctcg aagctatcaa 2160
gcttggttca accgctatcg gtgtatgtta ttcattttta tactcatctt ccggcatgga 2220
cactgaagtg tcgtaaacgg cggagcactt tataagcttc ttcgacaatg accgcaacga 2280
atccgctgac tgcttcacaa ggtagcaaca tccgaagggtg tcattcttagg tgtcgagaag 2340
cgcgtcacat ccaccctgct cgaggcgctc tcagttgaga agattgtgga aattgaccag 2400
cacatcggat gtgctatgtc tggcttgacg cagatgcccg gtcttttagtt gagcatgccc 2460
gcgttgaaac ccagaatcat gccttcact acgcggaacc tctgcgtgtc gagagctgta 2520

cccaggcgat ctgtgacttg gccctacgat tccgagagac tggagatgat gaggagagtg 2580
 tcatgagcag acctttcggc gtcgctcttc taattgctgg gattgacgag gatggtcctc 2640
 agctgtacgt ctctctccct tctatccgag ccctgcttgc ctgtctttcg cctcgtttag 2700
 cactacatac ctcttatact acgaaaatta tccactgact cttgtctcta ccagatatca 2760
 cgctgaacct tccggtacgt tctaccgtta tgatgcgaag gccatcgggt ccggaagtga 2820
 gggggcacag gcagaactgc aaaatgaata ccatcgctcg ttgacacttg ccgaggctga 2880
 gacgctagtt ctgaaaacac ttaagcaagt catggaggag aagctagacg cgaagaacgt 2940
 tcagctggcg agcgtcacca aggagaaggg tttccgtatc tacaacgacg aggagatggg 3000
 acgcgctgtc gcgcagctag gtgggaatca atgaaggact actcagtcgg tttgtgatga 3060
 ggccgtaatg aaattttgtg gatacattac agggttacct tgactcacat agaaaagaac 3120
 gatgacctcg gtcctgacc atgaagcatt gcttctcctt tatgaaatgt agctcgctat 3180
 aatcccaggg atttgaaacg gtggagcaga tacgacttct atatacacta atgctggtat 3240
 catagaggat tactcaaaca tagttttcgt caaagtgaac attcatcacc gaatcttata 3300
 gacgcagggc ttcagtacag ccgcttctc ctccggagtc atcccattat ccgcagccac 3360
 cgtcttctca ataaacttct tcttgccaga gccaggagcc ccagaagcag acacatgttt 3420
 acccttcgtc ggtgcaccgc ccgcctttac aaactccatc tttacgaaca tcttgttcga 3480
 tttatccaga gtctcagatt tcagaacaaa cccgcgtgtc ctgaagacct cgacaaaagc 3540
 agagatatca gtctcatcat cctgtgcggg acgggcatct tcagcataga tctccgcac 3600
 gtcgacatcc gagccggcat cgtcatcacc cgcgcgttct ttcttgagtt tcttcttttc 3660
 ggctttcgtg agtgtccgtt tcgcgcgat ttgggctttc ttgcggtgca ctttgccaaa 3720
 gcgacttttt acttcgctga cccagcatc acccttaccg tcgctgcgga gaacgcgcca 3780
 cgcttcttcg acaaaggaaa ccagtttgt gccatcagg ctgaggcaga agatcgcaat 3840
 gtcagccgag ccatcttcca aaggtaggtc agaaatgtcg gctttagtaa tgggtgaatc 3900
 tttgggagcg tgtaggtcga agctgtggag cttcaagttc agcttcttgg cggaagggag 3960
 cagagcgcgg tggagttgtg cgtcaccgca gccaaagtcg acaatgggtc atgtaccgtt 4020
 tggccggcgc ggtaaggcca gacctcggga tttttgggtc ggcttgcttc ctttctttgg 4080
 ggcaggggag atggctcctc gagtacggat ggcattgatg tagccgtcaa cgggattgga 4140

aggccatgat tccttgactt gacgggagaa accggcgtgg tattcctcga atagttcagg 4200
 gtttgaagtg aacagctcga gagcctgcgt tgacggagta gtgtataggg ttctgttcaa 4260
 atgacggaaa cgggatgaga ttaacttctg ccgcatggcc tgctgcagag gtgtcaagac 4320
 agctgttgta gttgggggtg caaggggtat cgattcagca gtaggggctt cattggggagt 4380
 cgcttggttt tcttctcccg cctgttggtg ggagccctta ttcttgttct ttctcctcct 4440
 cttggcactc tttttctcct ctgcactacc atccgctcca gctaccactg ttccagtcgc 4500
 ctttgcagcc tgcc 4514

<210> 1811
 <211> 3384
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1811

tgaaaagggg aatcacttag aggttgtagc agagcattac ttcccaccag cgagaattaa 60
 ggggtgggttaa ggtgggttagg atgtttgaag tcagggtca aaatgagagt tgctcgggggt 120
 ttagaggctc atcagtgaga ttttaagtggg gggagttaga cgcattcagc ggcttgtaaa 180
 taaagattgg atcattaatg tcttagatgc tgcgttagta aacagtgtct tagaacctt 240
 gtaatctatc aacacttcaa cgctgcttt gctgcgtaac aaataaagtg cattgcacgc 300
 cacatacgtc tcgtacgtcg accatacatt tagcagtaag cacctactaa ctatatcagc 360
 tatagaacaa agctgcaggc tgccgagtga taataggatg ctctgagtga atagggctct 420
 gaggttcggc catgggttta attgggggtt cgggggacaa atgaacttga atagaattgt 480
 ggtaaagtgt cttggatgtg aagagtgcg tagacagtgg acttactaga catggttgca 540
 actcctattc gagacagcca gtgtataggg aaaaaacctc tgtgtacgta gtactcgcag 600
 cagcaatgat tcacatcaaa attcttatag ggtatctgct gtcactata cattaattat 660
 aagacaagcg ctctccccga gcaggggccc aattctccag ccactctcgc gctttaccaa 720
 ggtcactccc cgcggttca accgcagcaa cgcaccaagc cagatcgtaa attttctcgc 780
 cagccgtccc atgattttcg ggggcaagca ttctggcaat attgcgccgt tgctgacctg 840
 cctgatcagt gcagaagtaa aacggtgcga tgtgtggccc cttgccctga agatctacgg 900
 cgtaaatcag aggtcgcacg agactcaaaa tagcggcagc gctgcatcga tgcggccgag 960

tcagagagct ggtgacaatt ttgtttccca gttttgcagt actcgttctg gcaccatgat 1020
 ttaccgcacc ccttcattag ctgagagaga taacggcgct ctatgcgtcg atggagcact 1080
 ttccccctctg gatcgtaggt gtctacatat aagggcccgga agcatatgct gcagagacct 1140
 atcgtgtcgt tgcttggtt aattgtgctt tgcactccgc gcccatcgag tgtacgtccg 1200
 cagttttggt tcaggcagat ttgaggcgcg ggccgggaga ggcggtcgag atcgtggtgg 1260
 cggaggtgtg tcttcataat gcgcagccga acaatcttgt tgcaaagatg gcattcgttt 1320
 gtctgtccgc catctacaag ttcattgctt gtaagaccgg agaccagcac ttccggatcg 1380
 tgcataatctg gatcagactc gccttgctgg ggcacctcca ggtgacagaa tgagcaaagt 1440
 atgggcttcg ctgggcagac agttgttcca tgttgagcaa ggtgctgaag tccttcgct 1500
 tcaaaccac aagcgcgga tgatgcctt gtatgaaaga tcaagtcag tttatgctga 1560
 ctgccaggt catgcccga tgaagcgta taaggacagt gccagtatt ctgccattcg 1620
 ggagaccgtt tctggaaaac ttcgtggcaa tgggtgcata atacattgtt ccgaaagcaa 1680
 aaattctcgt gcaggacaaa cgctcttgaa gaaaccagc gctgacagtt cttgcatagg 1740
 acatcatcgg cgctcatcgc atctgactcg gagcttcgt ggtcgacagt tgaagttgca 1800
 gataccaggc gcagttgata agatttagcg gaagcctgtt gttcatcagc tntagcaaac 1860
 gcgtggactg aaatatacaa cgctcggga ttatccaatt cagcgctcgt tggcgcaatg 1920
 ctaatctgct tctgtgtctg gcttgagagc tcaccaaaga catgctcgt catccgcggt 1980
 cgattcctct gacgagcaga aagaggactc gcgagcaacg taacatccgc atcgtcctcc 2040
 cctacaaggt taatttctat ggtgcttcca gcctccatt ttcgaagttc atagtccaca 2100
 tactgacccg gaagcacctg gccagtcact tcggcaccca gctcaagtac tccgccagca 2160
 gatgtgcctc catcggtttt agacgcggg gaagctctcg ccagccgttt atgtagtgtt 2220
 tcgcgggcct gctcttcagt caaggcaaca atatccacct ccagatcagt atccacgaca 2280
 catataacct cccctgagg ctctacctg tcgaccagaa atttgaagga ttcttcctga 2340
 ccccggggca ctgtgagtgt ttccccggtc gtcaatgtgg tgtaattgct gcgtagatga 2400
 cgctctaaca gagctttcca atcatcgggt tcgtaaccag cctctagcgg gcgcaatcgg 2460
 acataagtac ccttaggcag ttgctcggcg tgaacggtta ctatgggggc gtcggcgctc 2520
 ccaccttctt gggaaatgtc aagggttcc cgtaatgaag cactaagacc gatctcgctc 2580

tctctcgcgg agaactcgcg gatcccagcg tatatcacac gagaattttg ggtgttgacg 2640
agccggaatg tcagtggatg aggtaattgc tgctgtcggg ggacaccgtg ctgcggtgtg 2700
tgagactcag ccgcaaccgt acgggggacta aagaggccaa aggagctggg gtatggacgc 2760
agaggtcgct gtgacgatat ctcttgaagc ggagcggcgg cgagaagctg ttcgagagca 2820
gattgcggaa gaatgacct gtttttatga aaaataacat tcagcataca aatctggcga 2880
taaaggcatt gaccttaggg aaccgaagag tgattaccta tctccagaga gtttctgtgt 2940
gtattgggga ggagtcacgg taaactgcga cgaccagcga agttggctct gttccctagc 3000
cataactttt tgcaaggctc aggtatcttc caccagggcg agcaacacat ccttaagcga 3060
ttgttggcca ctgcagttga cgtgaactga gtcttgttgc catcttccag aagataccgc 3120
ccggatttgt catcctcaaa cgctcttaag cagggtccatg tactttatat ccttactggc 3180
ctacatgtac ttcttcttaa tacacgaaca acaagaaaag caaaaaagag agggctggct 3240
tgtttcatta ttaatccaag gcaaccata cctgggtagc tgggtggcat tcaaagagcg 3300
gaatggcatg ctatatgcgg ggtatacgat aatgctatca aacgcaacag atgaggtcat 3360
aaattacgtc ttcaaaaaga atct 3384

<210> 1812
<211> 2169
<212> DNA
<213> *Aspergillus nidulans*
<400> 1812

gtccaatcgt tattcctgat ttctcacacc cgtcgacaca tcgtacccta cttactgacg 60
agccggttct ggcggtgact atattgacca ctgcttcaag acatatgaaa ccaagcggag 120
atggtgcgaa ctcccgtgcc ttctacattc atgatcgct ctggtcatat ttgcgcggga 180
tgattgagcg tctgttttgg ggccaggaaa agtttggcgg caacggcatt gggatcaaca 240
aacctcgttc ctttgattta gctccctcct cagcgaaggt taatcataag ggtaatctga 300
gatctttggg cacgattgaa gcgttattga tacttacgga ctggcaccgc cggaatctac 360
attttctcc tggagacgat gagaacgcat tacttgatct ggatgccag gctggccggg 420
acgacaaaaga attagataat gacggtgaga ccacagcgca gcgaagctct agtggtgcg 480
ctgagggcag actggccttc cagacgtggc tagagccagc ctggcgggtcg gaccggatgt 540

catggatggt actcagtact gctcaagcat tagcattcga gctcgggtgtg tttgaccaaa 600
agaacgatac caaattatca gcagaaccgc cagctgagca aacgcgaaag cgtcgtctcc 660
gtcgacttat ccttgtgtat attacgcaga gcagtggccg tttgggcata ctttctatgc 720
tcccactacc acagtggacc gatgatatcc agccgacgcc actaaccggc gtgaaaggca 780
atgaggttga caaaatgcat gattgttggc ttggaatata caagatcatg tatcaaagca 840
accagctcct gttcgcatct aacgaacaga cttctgattt gataagaagc ggccgttacc 900
gcgaccagat tgatcgattc cagcctttcc tccgagaatg gcgacagaac attgattcga 960
ctgagtgtag gtgcatattt gcctttcatt ggacaaatgc taaccatata agtgcaccct 1020
gcaatgagac atatattgat gattgaatat gaatacacac gtacgtttcc ttctcgaaac 1080
ttatgaccac ctggcttact tctctcaagg tttatacgtc aactctttag cattgcaggc 1140
tgtggtcgat cgggtggacga caatgtccaa cgaggccgct caggctcaga ataagccgtc 1200
agcatcaaata aacgcgtcgt tccatgtgct aatggaattg taccgcgtca atgagccttt 1260
tattcaagaa gtcgttgatg cgtcgcgaag gattctgacc acagtgctcg agggcttggc 1320
cccaggggac catttgaaac atgctcctgt ccggacgtgc ttctggattc tgtctggcat 1380
gatcttcatt cttaaggtaa gtctttttct gaatctgaat gttgcgactc cgcattctaaa 1440
catcttagac gttcacccctc ggtgcgaaag aagatgacgt gcgtgtctcc ctcgaccttc 1500
aggaccgcac cgttgaagca ctccgaacat gtgttgctga cgacatccac ctcagccacg 1560
ccatcgcccg cctgctggag ctctcacga ctaatatccg cacacgcttc ctccgtttcg 1620
ccccctgga ccgcagtggg gacaacgaca gcaccagcgc cggccaggat cgcgcctccg 1680
ccccaacgtc tcgagccac tcgcctcggt cagcagaagg cccgcttggc cgtcgagatg 1740
gcctgaacaa cagccacacc tggccgtctg cgcaatcaac acataacaat caaataggcg 1800
gctatgcaga cgcctatcct ccacgtcga caccctaac ctcggtccac gaccctctag 1860
ctggaattcc cgcccaacc atcaactcct ccaacatcaa cgtcaatttt atgccacccc 1920
cgccatctgt ctattacaac ttctaccaac cccgtcccc gccgccctca ggcgagatga 1980
acccttccaa tccaaattct ggttcagcgt cttccaatct cccctcgac tcgatgaatg 2040
agcagccagg tgtctcggat tgggtcgccc ttccgctaga ccagttcttc aactcctcga 2100
ctgcggtcgt ggatcaaggg cttggtggga caggcccgat ggtgggtgag ttcgatatgc 2160

tgaggtttc

2169

<210> 1813
<211> 4014
<212> DNA
<213> *Aspergillus nidulans*

<400> 1813

catggtttca tggacaacag ggtctaattgt atccacgacg tattcccaga tgcacttgcc 60
gctgatgtct ttggcgttct tcatatcttt tgtgagacca ttgcgcttga aataatcctc 120
cacaatcatg ttctcgctgat tccgaggaac gccgcgcttt ccaggcaaac cattcagtgc 180
tcaccaccgc ccagtgaagg ggcttgctca acagaacggc cctgatccgc ggccagatct 240
gacgctgttc agctagggtc tgggcctcgc agagcttttt cacctggccc tccagaccga 300
agactttgaa gatgtagcgg atcatcttga tggcgtggcg agaaccgccg gtctcataga 360
gtcctcggcc agaagatgag gtgaagacat gactgtgttc aagccaatac tggaaagcct 420
gacttgatag gtgagggctc agacgggaaa tcaaaagggt ccggaactcg ggatgctttc 480
cttcgccgaa gattttccaa acatcacggt gaccgagggc gatgaagctt gcaaccttga 540
gctcgatgag gtggttctgg ttggggttca agtcaacggc gtgcacgcgg cgcgggctct 600
tctgcagata gtctaggatg ttgtcaccag cacttgatgat agccagtata acgtcgtcgc 660
gctttatggt gagtagtctg tgggtcaacc gagggctctc ccagttgaag gcatagatgt 720
actcattctt gaattgagtg tgtttcggga ggagatcatt atagaagatg cggtaatggt 780
ggttttgata gaaggcagca ggcaggggaa ggttggcgct caggttgacg acggccgact 840
catacgcttt agagtgaatc tcttgtgtgc tctggatgat tgcgttattc atctcctcgc 900
gatggtttgc tggagagaga taaggcgatt ctgtgaaaga agcgtccaac ttttctatgg 960
cctcacggct ggctgatc gggtagatgt ctttctggcg gccaatgaag atgtagtaag 1020
ggatgcctcc gagtaagtag ttacgctcac tagcagaaat gacagttcca aaccgatatt 1080
ccaaatagtc tcggcgagcg gcatcgaggt tcacacggtc tgcctcaaac caagcgcgcc 1140
agaacgcacg acccagccag ttaacatgtc ggttaaagac accgccaata tagttcctgg 1200
aggagacatc gacaatgctt tggacttttc gagcattagt gtttcttctc attgctagct 1260
gcaaacctgg accctaccgt agaaatcaca aacacccaag agaccagacg gcttcaccaa 1320

tttgcttagt gagtccacca cgctgtaata atctattact gtcagtggct gttcgagaat 1380
 tgcataaaac gagtccttac ctggaatcat tgacaggcta taactcattg tgaccagatc 1440
 agcaccggct cctacgctct ttagaggatc aatatggctc tctggcaatt ggaaggcgcg 1500
 tgcgtcctgg caaacgacag tgacattctt ccatacctagt cgttcgaacc gctggcgagc 1560
 tacctcaagc agagaaggag aaagatcgac aaggtagaca tgagagaaga attcgggaac 1620
 gggcacgaac tcggccatag cctcgatatt gtatctagag ctgtcagaaa acgacagagg 1680
 aacgctgtgc tcatcttgat gcttaccggt taccgccacc aatctgcacc attcgttagt 1740
 ttttcggggc cagcgggaac acgagaacct tacatcgacc cagatcgctt tgcctttccg 1800
 aagctccttg ttctcgacct tgtacttgag ctgagcggca acaagaccaa gcatatcctc 1860
 ccgaccacgt agaaggcgct tccgggtagc gtcgtaaaca gtagcctggg gagcagtcaa 1920
 ttgacatcct gaaagccagt gaacagaaga tgagctcata cttgagtaga atagaagctc 1980
 tccaacgcat cttgttggcc gctccacct ttatcatggg gtttcaggaa gctggcatag 2040
 atgaacctga ggtagacgga aatcccgtc ttgttatcga cttgttgctg cttctgcgac 2100
 gccacgacga ggacaactgc gacaagcgcg cagacgaaga aagcagcgcc cgcaatggac 2160
 gcatagtgac ggtcgaagcc gctcagaagg aaccggctg ggccactggc aagagagctc 2220
 atggcgcaag tggaaggaca cgaccagaag gacagaagag aacagactgc cccgaattga 2280
 gcattgagtc gggagggggc ctttcttcag tgaaataccc ctccatcgcc ggccggccat 2340
 cggggaagag gagctaagct tgcccccttt gaccaccag gactgtctgt cgacagcggt 2400
 ggttcctaata gtaagggaa gaggaagagt gcaaaggaca tgacgcccta tcaggagcac 2460
 acatggggcc ggcgcgagtt gggaatatcg actgaaaacg gaactgggtc aacagcggca 2520
 gaggtgcact gagtagttag atagacgac ctagatccat tctcttgcaa ttggccccgt 2580
 aacacacccg ggggtggagt gcctagtgtt agaaccagtc cgatgcagcg tgcacgaggc 2640
 aaatggtcca ggactcgca cttctgctgg aagcatctgc agctgttcag agggcctatt 2700
 cagagtacag gccagcgcac gggctaggaa ccataaagcg gttggcaagt aggagagcag 2760
 cgtggagaca tgtgtgggaa tccggcgagg agaagaggag gaatccaaac ggtcggcaga 2820
 cgttcgggga gacactgaat agccagtata cttgggcggg tcggccaatc acagcactcc 2880
 attccaccac actttggcct tcgcattccg tacggtcaac atcttcaatt cgccagatgg 2940

cgaatttcag aggattttaga cggcgtcatt cagaatgaat taaatgttat tgattgttga 3000
 tagcaagcta caagaatgag cagaggatta gctgtgttac taacgaagtt ggtgattata 3060
 tatagtaagc tcatgcgaat atatcattaa actaggctag aatccacttt caaggtatct 3120
 gaccgtagac tttgaatctt gaagtgtttc tgtctttcag cacggccata tgaatgcttt 3180
 caggtagatg atgtcagcat atatccagcg acaccataac ctgcaatcaa ttgggaatcc 3240
 gccaacacgt acctgccttt ctttccttga accactagca catcattatc gtcagtcatg 3300
 gttggcgctc gttcttgatt tacttgctct ttttcttcac cttctcacta gcgtccatag 3360
 ctaccccatc tctctgagat cgcacgtga gtttacagaa aaagaggggt tctcagaagc 3420
 tgcttggatg ttcattgagaa catcttgagg tgccagtacc actattctcc cactgctcca 3480
 gccgttagat catctcaccg aactagtacg ggtcaatcac tgatcctgat gatatatgtc 3540
 aacgtgaaca gaactgacag catactccgc agcatcgcac aaggagacgg tagccgcggc 3600
 aatgtttcac cccgtcgctg atcaagtttc acgatatcct ggtccgcaga ggcctcgcg 3660
 agcttgcgca gctatgtcct tgttaaagt ctctgggtga cgattcggtg tgaatgatgc 3720
 attcattcgt tgggctgttg cagaacacag ggaggctgga acgaaacgac gcccggttgt 3780
 gtccagttct ccacgaagga tacttgaggc ggctagcttt ggtttgcaag cgtccgtcat 3840
 atgcaacgat cgggtttgat acttcacacg agggagatgg tcaggtaagt aagtggatt 3900
 attctattag tctgggacaa caggcttttc gagctggctg agcgagtatt tggactgctt 3960
 aagcatagcc taagcctcct gcttgcaaga gagttttttc tcctaaaatc tccc 4014

<210> 1814
 <211> 3474
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1814

cctatattat ctggctatag aagacagctt gccttggtga aatggggcga accattctga 60
 cggaagattc gacaacctag ctggttgat tcatagcctc aacggatttt cggttcattg 120
 tccatcatat ggccttccgc ttacaggct gggcgcagag gggccagga aaagggttt 180
 ctcatgacc gtcaaacaga tatgaatgaa tcatgcagta cggccacata gggcatcaaa 240
 gcgctgtcca tggggctccgc tatgtatcaa ttgcaccaa ttccctgtcc ccgtcattac 300

ttgttacatg tCGgtggtac catggtgaac cagtgaggct atttttatca tttcccttcc 360
 ctcatcgtga accacatgtc acgcatectc ttaacctggg cgggcgtgaa gtgctcgtaa 420
 cactcatcag aagaataatc cataaagttg tgtacagggt ccacaccggg gcttcctggg 480
 catgagtcctt tgcgagcagg acatccatcg gtcggaatag actcctgggg tgtgtcttct 540
 atataatcac cctcgttggtc aaggaggcaa gactccccct cgaaagtgtg caggagtccg 600
 ttccagtgaac caatttcgtg tatggcggtt ccgcctcggg tataatgcgt tagagacccc 660
 cctggcatag tttttgcaag cacgttgcat ccgtccttca catagctgga acgcagacta 720
 gtactgttaa tactcgggtc gggtaaagtg cagaagccga gaacgcttgc tgataactgt 780
 tccgaagtac cgagcagacg accctgagat tccgagcctg agagaacttg gagatcggac 840
 tggaagtaga cattgagggt tccgtagctg cctctacgga gggcatcttt catgctaagc 900
 tcgtcttcat tacgcgcccc tttatcgttg atatggcgcg ttacccttcc gagacggtag 960
 cttattgaag cgttttgata tgcatcttgg aggtaagata acttattata gttagtccat 1020
 taatcaacat tatgtgatgg aaaaataggt gggctggcac acgaataaag atccagaact 1080
 aacctgagta gcaatcatac cgtccgaaac cacgtcgcca ctcgctttgc tgctcacgac 1140
 atggaaccat acctctatct caatgggctc cagcgccctta cgacttcctt gctcgactat 1200
 gccatcattt tcgagagcgc tcaattttct aaattccgcc ttcaacgatt catctggggc 1260
 tgcagtagca caatatcccc tgccccaacg aggaacagca agacagggtt gctgaaggaa 1320
 ggccagcata agaaccagggt cctggagtcg acgaagtga agcatctcgt ctgagggaa 1380
 gaacgtttct ggacttaccg agaagatggg caatattaaa aaagagtccc agcgttgcta 1440
 acagttacgc ggcattggtat gcaatcattg tcaattgttg gcattggaaa gattgttgaa 1500
 ccaggccggg aatgcgacag caagggatgc agaaaccacg gatggcggac ataggaaagg 1560
 agttcatttg tcccaaataa atactccgtg tccaaaacca aagacgcaac acgctgcagc 1620
 aattctaaca tataaggatt tgctgaaaat aaattggccc gtatgcgctt ttaccacctt 1680
 tggactcctc aatcgtaaac acgctgctgc cttttaccaa attgagaaac tcgaaatgaa 1740
 gccgggatac cactcgaatc agaatcaagg ggcattgttg caagcattat tgatatacag 1800
 tatgtgaaaa cgaaaaggga aatacatgga aattgaacgc caaacaataa aaaacttaac 1860
 gggaaatgggc cccattccta tcatctcgcc cagtccgat agcggagcta tcctgttcgt 1920

tgttccaagt caaatatgca tgggtctccca gtttcctgaa gatgtcagct catggtcggt 1980
 tggaaggaa aaaccttacc ttggacggac taggtgcgca attgtgaaca tagctccgag 2040
 aagaacgcag acacctccga caacaacgta ggcaattccc atgaatggat ttcggcctcc 2100
 aagaacactt cgggtggaaa ttagaataga tttggtaccg ccataatcag tgacgggaaa 2160
 agctagcatg ctgtcagcac tctacgtatg ttattactcc cattactatg aactcacgat 2220
 ctttgatgtc caaccgatat cgtcccgact gcatggattc gttgtcattt ctccgggaca 2280
 gcttgctaaa tgtgggcaat gcggctgttc tcatccaaac catgaaatcc tcatcttcat 2340
 gcagatttgg gattccactg tcgtagttag gatagcggtc tcgccaattg ggtggcgga 2400
 ctaccgcacc tggttcgtac tcagtcttct tgatgagctc tttgtcactg tcccacgcga 2460
 tacccttctt ggtcatattg tacgtctcag gatcaccacc gcggccgtta acaagtatag 2520
 ggatttttat tgtgtcattg aacatggagt tcgcatgag tccgcaggga taataggcct 2580
 ttccgttttc atcgagcttg aggggatcgc atgagccacc attgatcgta gcgtttttga 2640
 cagcctttcc tttcagctga tccatatcaa ggctcttcac gtatcttcga tgattctggt 2700
 agaagtgggt aagacggtag tacatgaaaa ccggcggccc gatagtatcc ggaatatcaa 2760
 acatcagtcg gcaatgatcc tctccattgt cgttacggaa acgttgccag gacggccgtt 2820
 gatcgaaaga cgatttgaac gtatatttga atttatcatc agggatcgat acagcatccg 2880
 ttgtggcgtc cttgcagtct gaatagtcta tctaattc ttgaacctaa gagcaaaaat 2940
 caaagtcaga aagcaagatc aaggtaggg agagtcagat tgtacagttg aactagccca 3000
 tagcaataac ccaccgatag gggcaaaaat gactccgacg atgaaaaaga gaggtaaaac 3060
 actcttgggt gtcaaaatcg gcctgcagcc cgtcaactac taacccagc ataagcattt 3120
 gaatttgagg acttactgcc aggccttttag acgttggtgc cggaaggcag tgtctgtatc 3180
 ctcaatcagt atcgtagaat cgtacggata atgcggagct ctcaattgct ggccttctgt 3240
 ttttgggctt cttatcaatg tcggtatctc ccctatgttc ttgttacta aagggtcaa 3300
 tactgttccc ctgtgaatga gacatagttt ctcataagac ccattccata gagaaatata 3360
 tatggatgta agcgcacgtg tgacaataag tattgtcgct gttgtctaag tagacaaacc 3420
 gtggtggcgc atataacggc gggtgcgtgc ttggtaggat cgcccagga attc 3474

<210> 1815

<211> 3444
 <212> DNA
 <213> Aspergillus nidulans

<400> 1815

```

cagtggccca gatttcgccg gcgccaagga tctgttcggt aacaaacata tctccatcac   60
tgaacaccgg attaagtaat tgtcatgtcc gctcaaggta aaaacattcc tgcagtacct  120
caagaacatg gtgtgatgac ggtctgtagg atcagaagga aagatatcac ttcttgccctg  180
attgttcaag tagtctttag ccgatacgtc aatgtctatt aagtcgtcct ggatcgtgag  240
gagcgagccg cacaagggaa gaatgtcacg tcttagaatg tcctccgaca atcctgatag  300
gacgcggagt tcagctaggt gcagtggacg acgatatgcg agtgtgacag agctaagcac  360
accacggcaa aactcccaca tttcttcctt ttctctgagt tgtctcaata actgatcgta  420
ggagtcactc gtcattgtgc gttgtgtgcc tttcgtcccg ttgtgggggt gccagctgt  480
taaggactgc tgctttgagg tgtctgagca gacatccatc ggtggccttc tcgattgttg  540
tgtcgtagcc ataggaagaa acactcggag gatcactagt ggcgaaatgg tttgggttttc  600
aagtcaagcg taacgcagtc gcagcttaga aatgggtgcta taaatgagag gagaaatgag  660
atagcaagag cgcaaaggaa atcgaaacga acggccacga gatagtcctc agccgatcct  720
aagaaacaga aggacagagg tctcgtcccg ggggtttctt gagccttggg ctggtctttt  780
cttattttat ttattcttga aagcgggttt gtaaagcatt ccctagagtt aattacctga  840
ggaaccgaca aggaagccaa aggatagaac aagggatata ctgacgaagt ttctagtcga  900
atgtcacttt taaactggga tcagatggcc tctttgacct tgcaaggctg tgttgcttca  960
gtgcaaagcg ggggtcagct gaagtgggtt gtctgacccc tgcccgttct taaccgcgag 1020
gattgcccac ctctcagacc atcgactcct tgccctgaggg tacggactga cacatggggg 1080
agccgcacct gctacctagg catgagacag ctgtaatttc gccattcaac aaccattttt 1140
agccggagtt gaacgtcatg gtgtcaaatt ctctgagtc ctccgccgag tcctctgtca 1200
agagtcaaca gaaaaaaaaa gcaaaaatgc atggcactat cgaccatgcc ccgccgccgc 1260
gcgtgggttg ctgaagagcc tacctccacc ctaccctgt tccctgtga atagctttga 1320
ctatggcggt cccctccttc gaagccagcc catccttctg aaaggtaagc gtatatgtgt 1380
ttcatgaacg tgatattggt gagattgcgg gaataaaatg ctattttggg gagtcttgac 1440

```


atcctacatg atcctgcccc catgttacgt ctttgtaacc tgtagttagc ggccagtgct 1500
 gtctcaaatt tgtagtaat tgatactaaa tcataggcaa accattgtag tctatgcgcg 1560
 ttaaggtttg ccagcatctt tcgtttcggt gaggcagat aggggcaaga taaggcacgt 1620
 tggctctgagc gtgaaatgaa cttcagcgtg ggttaatctt accttgtcgg acgggggtggg 1680
 gtataggaca aagcttccga tcaacacatc ttcctttggc atttaggctg attttgcccc 1740
 ggagctaadc ttaatcaggc tagcagagta tgaccggtgc agattcatag tgcaggtaca 1800
 catttcatca aattacgcca ccgaaagct ccaacccttt attcgaccgc cacctctgtg 1860
 ctttatgtgc taaggtagcc gaaacagccc aaagcttggc cagattcgca tggaacaaat 1920
 atcacgggca tgtgatgttg ctcatgtcgg cgattgacca ggaaataccg tatgggtcca 1980
 cgatgggctg gaagcttgac ggaagcggaa taagaattgc acttcacagg aaagggttaa 2040
 aggcataatc tcttcaacac actgagatgg agacaataag agatacatta gaatccatat 2100
 tccacggata gaccgtgcag aaccggcag cttcatgaca cagacgatac ggcttcttaa 2160
 cccgaaaata tttgacctag cgagggttaag agtggtgaac tgagaatcct acctgaggct 2220
 tgagatcttg aactagctat tgcaatgtat gagccgaagt aatacagagg acacgttctt 2280
 gaccaagaac tgttgtcaat tgttgcaaaa tgggtgtgctt agtagtaaatt ttcaggttta 2340
 taatcggagt gcgagacca gttcagatag tccagcagcc accaataata tatattcttg 2400
 aagagaatta atatcctcta acgtatgtgc gcttaactag atgcggttga ttcttaacgg 2460
 gtgtggctag aaggactggc tacgtctaat gcttatcggc cagaaggctc tgggcgacat 2520
 atctgcagat attcttaacg atgtaggaaa atatagctta gtgtgttgca gtatcggtac 2580
 aaagcatagc agaccgctcc tcaccaggac attgtccgca tgatattaat gcatactgaa 2640
 tttggccggt ccaggaatag tatcatttag atatataatt accaacaatg cattcatcga 2700
 tatggcgctt atgagttcta tattcggtta tacaggctct gagaatgaac tccaacata 2760
 caaccgcaa ttctttacat gcgccatgtg ttccacctag gtaagggaac ctcaacctac 2820
 cccaccggca acatttgcct ataggagct aacaatgagc tcctccaacc caagctcgcg 2880
 cgcgcggcga atccaagccg ccaaatatgc tttatcaaag tgggtccata aagactagcc 2940
 attcgagatg ccaattgatc aaatgtgata cccataccac tgctatggtg ccggaagcgc 3000
 acacggctat tgtgcgtttg atcttgagca atcgccctcg cgacctctgc aacgtcgtgg 3060

aagtcaaaaa agccctcgga ttcggcacca gtggcacagt gcgacttagc cgcgagaaac 3120
gtagaattga attcctcgcg tcgtcggacg gtgcgcgac gccgatgact gaaattgttc 3180
ggtagagacc gataggcagt ggcgatgcgc gcgacaatct ttccaagaac gcttcgcttg 3240
cccacttgaa agccgtgaat ccctcagacc cgtcggctag tgaagagtac gccatcattg 3300
attctgcgtt ggccttaca gccccgcgt gaagaatggc ccggccagac gagacgaaat 3360
gtagcggcac ccgccgggaa tggcccaggt agtaatgttt gtgtggacag caggtggctg 3420
actggagcga ggtatagtgg tttta 3444

<210> 1816
<211> 2623
<212> DNA
<213> *Aspergillus nidulans*

<400> 1816
cctccatgta ctgtttgatt gcgtcggctc gtcgcttgct ttaaaggtta atggaagttt 60
gaaacggcgg ctgggtacct ttgcacggct gaggtcgccg agttgagtct cgatagtgca 120
gaggtagtcg attagctttt gttgcggtat cttggtgccg tcgtagtaaa tcattagggc 180
ttttgggaga tcttggttag taaggcatac tagctgacat cagaaaatct tacaatttcc 240
acagccgacc aagtttatca agccgtttga tactgagata tcgcctgctg cctcgtgtag 300
cacttttttc agcgcggtga ctctgtagcg gtggttcaga tcaaaggcac caacgccgta 360
gtcaatcaga aggtagtcac caccggccta ggaaactgtt agatcggcag cttatcagga 420
atgtccttta ttacctgtcg gtaggaaaca agcggctggt tccctttctc tgggaatttga 480
tgcacgatgc cagagaccgc tgttgacgag gacatggctg gaggcaaaga agaggctaga 540
ggagttatac taccgaagtc ttcccccttc tgacagcatt gcacaatgtc agatataaat 600
ctctccagct cattgcgcgc cagtagagta tctttcaatg acgtagctct gaatttcaat 660
ttgtctccag ctttgacctg tcctagtctt cacaggctct ctttgacaat tgtatgactg 720
ctaacaaagc caccaagatc tgggtgatct tgcgggaaaa tcaccgggtc gtcacctgtc 780
cagttgattg atccaatggc gtatccacac tcgattaggt tagaagggtg tgcaccgcc 840
tctcctccat ccggccgagc ccagggtggc ttaggaccaa gcagacgaat cccacccctt 900
gcagcgttgt gcgaaatagt ccattctgcg ttgtagagca tgtctatact ctcgggcgcg 960

agatatacctt catcatacgg tcccggcatc gacataagtt cccagctgtc aggataactgc 1020
 gggataagat gctccggtaa acttaattca ttatccgact cagggatttg ggccggagata 1080
 gttagataat ctccagatgt aagctgtcga ccctggtaac ctccgacacc gaccatgggc 1140
 gcagtcgctt tggagccaaa ccactcagct atattgggga atccaccgag gacggcaagg 1200
 taagccctgc aaccgccacc cgtggctctt cctatcttca agcgttggcc tgccgatacc 1260
 tttaccctag accacatggg tacaggagct tcatccagtt tggcatcaat cggatgcaccg 1320
 caaagtgaga ttaccgctgg tccaaggaaa cgtagctctg gcccgctcag cgtgatctct 1380
 aagccctcaa gaccgactgg gttgcccacc agagcattcg caatgcggaa cgcaacagaa 1440
 tccatcggcc cggagtgaca gaagcctcgg cctactgttg gacgaccggg ccagtcttga 1500
 atcagcgtat aagcgccacc ggagatgaca tcaatagcag ctagattgta ttcgaaatta 1560
 ttcaagaact tagtcaaggt gtttccagcg ttaaagtcct tgttggcaag gatttcagcc 1620
 agaaacccga ggttagttgg agggccacag atccgtgacc cagttaggat gtctctcagt 1680
 ccctcaatcg ctttttgctt gctcgatgca tgatacatga cctttgcaag aagaggatct 1740
 attccttgtc aggattctct tgcaggtaca ggatttgac aaagtcttac cgtagttcgc 1800
 ggacactttg attccccctgt acaccacgt atcaattctt gatcctgtgg tttccttcca 1860
 atccacgtcc tggagtatcc cagggcaagg agcaaagtcc ctgactgggt tctccgcata 1920
 cactcgagcc tcaatggcaa acccttggtg agcgctacc ggaatgctcg agagaaactc 1980
 tgcttcgaga ctttttctgc ctgacaactg ggcacccgct tgtcgaagca tgagttccac 2040
 caaatcaacg ccgtagcata gctcggtaat tccatgctca acttgaagac gtgtgttcat 2100
 ctccaagaag aaaaacttcc ccgattcgtc atccacgaga tactcaattg ttccagcgga 2160
 gccatagtca attgattcag cgaggcggac agcggcgtcg cacaggcctt tctgagctc 2220
 cggattcctg gttacaaagg ggcttgaca ttcttcaatc actttctggt gtctcctttg 2280
 gatggagcac tctctttccc caatggaaat agccttacct tgcccatttc caaaaacttg 2340
 gacctcaatg tgatggctag acggatagta acgctcgatg aagagtccag cgttcttgaa 2400
 gagagcttca ccctggatt gtacagtctg aaacgattcc cgtacttctt tctcggtggt 2460
 gcaggtaagt aatcccattc cgccaccgcc agcggtggtc ttaagcatga cctgatgact 2520
 gtgagcgcag tggtatacta ggcacaaggc ggaaagaata caggaaatcc gagactttga 2580

gcgattttca cagcttgtgc ttgtcttgta acatgacctt gcg 2623

<210> 1817
<211> 2051
<212> DNA
<213> *Aspergillus nidulans*

<400> 1817

acctttactc tctgggttgg tcttaagcta cgataaaaat ccgttctatg ttgctctgca 60
gaggcagtac gggcatgagg tgtcgaatat gataaccggg ctaaatagatc aagtgttagc 120
ggctccaata aatggtgtcc agtgtctttc cgcataataca tccaacattg ccgcgctcat 180
tcctcgctgg ccgcagcttt cgcagccctt gattcaggca ttgagcattg tccatgacct 240
agcagaacca aaagacgacc acagcgggta cggcccggac gaccaaattg ttcccatgg 300
gcatcaacaa gcaatggata caatatacag cctcgttcgg tcggtagacg agctatatca 360
gactcacatt actaaaaaat ccccttgat aactaacgag gccagtcca cagtgttcg 420
tcataattca aacacataca tggccctgtg caatcagagc gcaagcttag cctcgcagat 480
tgccgacgat ctgtctatac aggttctga tgacgtccg ccggttagtt tgccaattat 540
tgttttttac ggttggagat ttggcgttct caaaaagcac atcatggacg gccgaatgga 600
gctccgtgtc gctgggattg acacaatgca aggtgacttt gtcaacgtct attctcagta 660
tatgcgaaga gatatactct ctggactgca taatctgtt gtccaattta tgctcaagat 720
gctgaggag aataggattg tcgagtacat ggtcagcatc gaatcccatc cccaactgat 780
tagtagaagc cataacatag taggcttctt tgttgttacg gggacatata ctgatgcgga 840
taccgacact atttgaaaaa cggtcacaga aagcccggac cctcgaacgg tgtctgaagt 900
gctcggaatg cttatgaaga cattcagtct gcatcatgat ttatctggtc ttctttatct 960
atgttccaag ttgttggagc tgcctttgac ccattttgac cagcgaatgg tggagttctg 1020
cgaacaacta tttcacgttc tgcgtgaaag aaatccgatc agacaagact cctttgacag 1080
tgtacacgtc gatgtgaggc cgttacgtct gtgcgtgcgc ctaattcgcg agagtgtctg 1140
gaccgaagac cttgccgtcg atcaaaaagc ttccctgcaa aaattcgctg gtggccaact 1200
aagttccttt atggatgtag ggcttagcga tgccgataag atggatatct atgagagatg 1260
cgttcaggat atcgccgaaa agaatacgtt cagcgtgggc agcatccaag ccctaaatgc 1320

tcttctcagc agtcaagatt cgcaagagat ccggaagctt gctaccgagt tcaatctcac 1380
 atacctgctt atttccgaga tggctgaagt agtgcaaggg aaccgaacag attttgcgga 1440
 taccttttca agaaatggct tcatttcccg tgttcaaagt ctttcccgga ttattgaaag 1500
 gatgcctgat tccattactc cggaactcgg tgatatctta tggcagaaca tcttcatgtc 1560
 ctcatctctt cccaacaag gaagaagaat tctctgggat atgttctgcg caatcactag 1620
 gcacgtcgtg acaggggaatc cgttcattga ccgctgcac caatattacc tacctaagct 1680
 gtcgcccctc gcagattatt cctcagaggt gctcgcgttt gccaaacaga ctataaatta 1740
 cgagattcgc ttcaaccctc cgtcctctgt cgccgacaac gaagtaattt cgattcctgg 1800
 aatggataga atatggaact ttatcctgac tgcaccccc aactcaatcg aagccgatgc 1860
 gactgctttt gccatagagg tctatcttga tcataacac atccatcgct ctcccagttc 1920
 atctgttgag gcgaccacat ggctttgggt gacagttgtg ttgatcactc aaatccgcgg 1980
 catcaaagct gaaattgtac tcgggtgacc agcagatgtg aagaatgatg gttgtggaag 2040
 acctagtgat g 2051

<210> 1818
 <211> 2498
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1818

atgtagggta tatgtaatta taatacgaat ctactatttg ctcaattctt tgggtgcttta 60
 gtcccagata tctgctctgc tggctctgcg ttgatgctag ctaaaaggac cgatgccacc 120
 tcgaaaccgg tctgagtcga gacgagcgat ttttacgggg gggggtcttc aaagagtgtg 180
 gtcctccgta gacgaggcac caatccagca tggaaagaca gcacgtgtcc tgccgcagtg 240
 gatgacgagt caagcaacgt caagagtttg gcaagaaaag acaagcgta caggaaactc 300
 tcaggtctgc ccgccatgc gaatgacagc cggcggcccc accacgtgca gaatcggggc 360
 ccccatctgg ccgccaacca aaccataagc tcttcctaag ctgttcctaa gctgcctgcc 420
 gagccagcgc caaggcgcca agataaaccc ggtcggatcg gggttcaagt ctcggcgaat 480
 ggggagggac cctgcacgaa cgtggacggg cacgtagtgg tagaggccag aacgagagac 540
 agcggccgat ggcattgcagg cttctggaaa gtggctcagg gtggtcgggc gtcgagactc 600

ggggtgtttca ggtcagctcg tgcagctggc gcagttggtg cagctcgtgc agctcgtggg 660
 cgctcatggc ccgccaagt cggaacggc cgtctacacg tgggtgatgt gctgacagac 720
 agacataaaa ggactccaac gctccctggg ttccggtccct gggttctgtg tctgtctcat 780
 cccggtcagt ctagacttca cagcagtcga gatggtgctc gaccagtaca cctacatctt 840
 cgccattggc accatctttg ccatgctgga tgcctataac aatggagcca gtacgtgacc 900
 tctctgctgc tgcgtcttct gctgcttctg ctgcttcttt tgcctctgcg ttggtagtat 960
 tgctgttctg ttactggctc tgcgtctgct actgctactg ctactgctgc ccctgctgct 1020
 gccagcgac gtactgaccg cgcaacagac gatgtcgcca actcctgggc caccagcgct 1080
 tcttcccgtc cgatctccta ccgccaggcc atggtcttcg gcaccatctt cgagttcctc 1140
 ggccgctga ccgtggcgcc cgcccgccg acacgatcaa gaacggaatc attccccccg 1200
 aagcctttga gggcaacgag ggcgtccaga tgctcgctt tgcgtgctgc ctggccgccc 1260
 cctctcatg ggtgatgtg tgcacccggc actctacgca cgtctcgtcg acttactcgc 1320
 tctctctgc catcgccggc gtcggcgctc caacggccgg cgctcctcc gtccaatggg 1380
 gctggaacaa gggcaacggg ttggggcgca tcttcgccc cctgggcatg ccccgcccat 1440
 ctccggtgt ttccgtgcta tcatcttct cctcatcaag ttcgtcgtcc acatgcgccc 1500
 caaccccgct ccctggtctg tctggaccgc gcccttcttc ttccttatcg ccggcacctg 1560
 ctgctgtctc tccatcgtct acaagggtc gcccaacctg ggcccttcca aaaagccgcc 1620
 cggctgggtc gccggcgta ccctgggcac tggcgccgc gtctgcctgc tctccgctt 1680
 cttcttcgtc ccgttcgagc acgcccgtgt catcaagaag gactacaccc tcaagtgggtg 1740
 gatgttctc tacggcccca tctcttcag ccgtccggcc ccggcggacg ctacctcgc 1800
 cgagctctcc agcgtcccca actacgccgt catgcaggac gacggcctcc cgcccgactc 1860
 gccagagacc ctgctgacg agccctccc gccagccgc cagtcggaaa agaaccctc 1920
 tgcttcagct accgaggctc agctcgacta taaggagctc gtcgctcgc gccaggagcg 1980
 tttccacgcc aaactccgac gcgcccgccg ccccttggcc tgggcatgc gacccctcca 2040
 cgacaacccg atcggctccg gcgagatcta cgagctgcac aacatcaaga tctgtctca 2100
 gcgtattcct gccatgatca ccgttgact gctctatggt ctgcactacg acattcacgc 2160
 cgcgagctc ggtatccatg ggacccccga gggggccgc atggagcgag tgtatgcca 2220

tgccaccaag tatcccaatg aggtcgagca tacctactcc tttgtccaga tcttgacggc 2280
 ctgcactgcc tcttttgccg acggcgccaa cgacatcggg aactccgttg ggccgtgggc 2340
 ggttctctac tctgcctgga ccaccggcaa ggccagttag tcgaaagcgg aggttcctgt 2400
 ctggcagctc gctgtgctgg cgattatgat ctcgattggg cttgtcacat acgggtacaa 2460
 tatcatgaaa ggtactttgc cttttccctt tacctttc 2498

<210> 1819
 <211> 3323
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 1819

gcatccctgt gtcaacggta tagcgatgca ccattcctag gtgcatgggt ccggatcctc 60
 gatctcgttc gcctttgggt gcacagagcc ggaccacgaa gattaaaaag gtatcagctc 120
 gttctcttct tttcaccagt ggctttctta tctctgcctc ttttgttctc tgtgccttgt 180
 ctctcccca tcatgatgat gttagtgttg ctgagatact gaattgcttg gctgctagcg 240
 gagcaggagg actttgatcc atcatactct tgacgtactc gcttgttgca tctcaagaca 300
 ggatgactca gtacctggca tatcagtttg ccggggattc gcccagtgcg gcatcgta 360
 tgtttggta gttaagctat cgggtctgtt ttccggccggg ggaagagcgc cctcagttta 420
 acattgcgta ccgatggtgg gaggatgaag caacaactat tctttggact tttgacgtcg 480
 aggtgatcaa gagagttata cgtttcaagc ttttctctga cgaacagttt ccacggatgg 540
 cgcttcatcg tcgaccaact tccacagtgg acgatctcct caagggactt tttgactctc 600
 aggaaagagt attctatgct aacctaccgc acgctcaaaa agtggacgcc attctacagc 660
 gatgcaagcc tactgctccg cccatgattt cgtggggctg gctcccagcc cggatggaga 720
 taggccggac gggcgataac ttggaatctt tagccgtcgc caaggccatt gatgccgaaa 780
 gtcattctca tttcaccgtg ataacatttg aggagctggg ccggtattcg ctgggttacc 840
 cgtctggcca agtggaatgg ttcttgccgc agcatacatg tttctatgcc cacctgttgg 900
 atcacctgca tgcatttccc gagcaggttg agagatacgc ggaggttgag aaggtttgtg 960
 gctttttaaa ggtgattgtg acattcttgt gcagactgac tgagcttccc atagcacctt 1020
 cagactcgaa gcccctttgc ccatcgcgct gtgattagtg ctctacaaga tgcaggttac 1080

gcgctcgaac tgccatgcat gacacccggg ttccgattct ttgctggagc aattcaacgt 1140
 cttttcaatg aactttctgaa cttgaagttg attttgaagg tgctcaatgt cttaggagtt 1200
 cgatttgccg ggtgggtactt gcacgcccag gaaatggact ggtcgcgggc gttcagcatc 1260
 gtctttctctt ttcttgagga catggacagc tcggattcgc cagtgagctt tgctcgtaat 1320
 ctgaccagat ctgtcgagcg ggattttgcc ttactgattg aaggggggtac tttggacaaa 1380
 agtgtggcta atcgtctgtc ggaacgttgg cagcttctct ctgtagaagt ttgggaatgt 1440
 tgcaaggcgc ttccagaaac gatccggttt atccaagaat gtttagaggt aagtcacgc 1500
 caccaggat gattgtctgg ttggctaaca ccctgcagcc tctattgact ttgcggaact 1560
 accattccct gactgccatt ctcaagtggc ttcacaagta ccgcgtttcc gaatcttcgc 1620
 tcgtccgcct tgaaaacgga acaactgcc tgaatctgaa ccaactgctt ctttctgaga 1680
 tgttatacct cctcaatccg tcacagaact acgcgctata tcggcagcaa tatcagcagg 1740
 cgccacggat tcccttctc attcctcact tgtatgagta tcatcagctt ggtgagccta 1800
 ttcttcaaaa cctctatgag caaatgagcg ctgtcattcc tcagctctaa tgcatgcac 1860
 tcggatggat gctgggacat acatatgcca cgaaatacga tgaaagtga cggtgccgac 1920
 ctagatggct ataacagcaa aacgatccat cccggcccgat caatagaata atacgaaatc 1980
 tgttggtttt ttgtttgttc cctttgcccc tttccccgaa gggcataatc actcggcttt 2040
 cgcgggactg tttttgattg attgaattgg cgtgtactct cgcttattgt gtcatgacgc 2100
 tactgatatg tactcttagc gaattagact acatcaggtg caggatgaga ttaaggtgta 2160
 ttctccgact gaacagttaa ggaatgagca ttccagaccg tcagacccgc ttcttcggct 2220
 cttcacgga gccaccttca gcatacccaa aaacaccag gcagtacaaa agccgattca 2280
 caaacagaaa ggccgtaacc ccaacattgc cccaggtgag cgcattccac ccaccgacat 2340
 caaagaaaag cgctgggccc atggcaaggt aggtcacgta gatatgccct acatcaccaa 2400
 tggccagagc gaccaagtag ttgctcagca ctttcggctc cgaggtggcg tagagcacgc 2460
 cggcgccaag gagcgccata agcccgtaaa cattcgccag ctgataggcg agggcgaagg 2520
 aagttgcctg gacttccagc tcctccggcg caggggataa tggtatctgg ccgacgatga 2580
 atccctgcag gtccaagatt ggagctaacc agccgccgat cctgggtttt ggtaagctgc 2640
 ggagcgtcgc gtgtctattt ttgtcctgcg atggagggga tttcatgatt acgcagacac 2700

agttgaatag gggttgggca cgtacagggg tatgggctca aatatagcaa aaacgatatg 2760
 gggccagggtt gggaggattg tggctggcat tgttttattg tgcttgctga tcagtggcaa 2820
 agagtgggtt gaaattgatt atcgtgctca atgtcgagta atacgccgc agggaaaatt 2880
 cctcagacct gcaactagag gacggagtgg ggntgttggg gctctgaagc tgaagctgaa 2940
 agatgtatgg ccattatgc gtgctttata ctgntgctga ttcagcattc tgagctcaca 3000
 tgataagggt ttcgatctct gattgtctgg ctgagctttt cttccccaag cacacagcac 3060
 attaataatta ttctaagcaa tgagatttcc acgcaagaga ctggngtctg agtctctcag 3120
 agttttatag tgctagccat ctttcttgat tgtgcctttc cggcccagga gacgaaattg 3180
 actttcggcg atgatccaac ggaatttcgc cgcactacat gaatccttgt cgcgacttct 3240
 tacctcgatt gttctttcga agcggttcat tccgaactag atcctttgcc ttagccagcg 3300
 catggagccg aattagcctt ttg 3323

<210> 1820
 <211> 1051
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1820

tacgtgacct accttgccat gggccagcgc ttttctttga tgcgggtggg tggaatgcgc 60
 tcacctgggg caatgttggg gttacggcct tactgtgcga gaccgggtc gtcgtcgggg 120
 tgggtggtcaa gggggagaaa gagaccaata ttgactcata gaaggactga agtcgccgac 180
 tagatgaaag ctacggagtg aagggagtgg actctcggtg gtagataaga agagagagac 240
 caaacagggg gcagagtata acttgagac tacgtgatac gccaggggtg ttcgagagac 300
 gaggcaacca cgactgatgt tgactggatt cctgcttggg taggtatttg actttccaag 360
 cactttcacg gtctgggat ggggggcaac tatggaacgg tactgtaatt cgggctttag 420
 ttgatagcag ttccaagtgg ccgatatag agtattgtga gggatgtcca aatcaataag 480
 atatgtccaa actttatata gtggttgagg ctctctgat ggcaccacgt ttccctgctt 540
 ctttcagatt aagagaagat aggtatatgt agaccaggac catcgtag tagtaaagaa 600
 aagatgaaaa agagaaattc gtttcccatc ctcaatcgcc tgacagcctc ttccagcacc 660
 actcactcct atggcaatgc ttcttctca tcccttatct gacgttcttc tggttgctcc 720

agaccacgca gctgctgcat aacgccagag ctgatattct ccgcgattag gcgctaattt 780
gtctcatctg tgcactcagg cacttaagcc ttaaaggtag cgtgagcgct tggcaaagag 840
cctttgccga cactagcgat ggcgggttcc cgagcgctg taaggcatac tggctgttaa 900
tacctcaaca cgggtgggtag agttgatgtt cttgaccagg gtgatttgca gcaagtagca 960
ccacctgacg ggaggtgatg gtggagtagc aaggaagtat cccagatctg agagaaaggg 1020
gtagatgtt gctgtcagat tttagaggat g 1051

<210> 1821
<211> 4284
<212> DNA
<213> Aspergillus nidulans

<400> 1821

gaacactcgt ccgtcgcctt atcaagctcc ataatcgctg gactagttac tgactcggaa 60
ctttctcttt gtccattcga tactccttca atctcaggcg tcttcatctt ttgtgccatt 120
tatgacgtcc ttgggtccaat tttatTTTTT cctcacata gtacttagcg gcatctgtca 180
acgccttttg tcgttccctc ttttcccaac ctctactttt taggttctgc tattgttttc 240
cggagggttta tcttagaatg gatcaggcca tctacatctc ctcatctagt gaagatggat 300
ttaatgatga tccacctctc ttcgatgaag gcgacaattt tcaggaacag ctaccggacg 360
aagagcgggt tgctgcttac ttcgacagag agactcctga agagttgttt ccagacaggt 420
ttcccaaaag gcaaaggatc catggccccg gggacgtcgc tctcgaccaa atgctttcaa 480
gtccgcttgc attccggggc cctgattctc cgcagtcttc aatggcagcg gcagctgatg 540
gtgccaatac actcttcatg cagatttttag agatatttcc tggcatcagc cacacgtacg 600
ttaacgatcc tgatagccca aaaaaccgtg gcatttcggc tcggcgcgga tctcaaagca 660
cgtgggtttc aactggcgat attaagagat agcatctatg aggagatcct cggtcagaaa 720
tcgtatccta aacaagacag tgagaacggc aaaaggaaaa gggaagagtc tgaagaggcc 780
gacattagct gggaacgtac tttacaaaac gcaacaaaca gtcccgaata cttcgaggca 840
gcgtaagcca cctatcatga taggagtcac tgttgttgca aactgatcag ttatacagg 900
tctgctttcc tgggaccgca atttccatgg gtgccgatga gtcacattaa gaaagtcctc 960
attgataagg gacgccttta tcacgcattc gtagctcttt actctgacga taaccttctt 1020

gagcaacgga agtatcaata tgtgaggttg aaaagtcaga gaagtacgaa ctctcccaaa 1080
aagtacaccc ctcttcgtga cactottata cgtgagatca acgcagcgag aaaacatgta 1140
gaagaactgc agagtgagtg gcctgtcttc ttcctagctc aatgtaatta ttctcattgt 1200
tcctactagt cactttgctc aaaaagaagg aagaagagga ggcggaagag gcgaacgagg 1260
aggaacacat tcggacaggc agtctcattg agtgccattg ctgttacgcc gatgtcccg 1320
caaatcgatg tattccgtgc gatggagagc accttcactt cttttgtttc acgtgtattc 1380
gcagatcggc cgacaaccaa attggtatga tgaaatacat actacaatgc ttcgacgtca 1440
gcggttggtca agcttcgttc aatcgtcagc aactcagga aatcttaggc ccagtagtca 1500
tggaacaaact ggattcccta caacaagaag acgagatccg aaaggcaggc cttgaggggc 1560
ttgaggattg ccctttttgt tctacaagg cgtcttgcc gcctgtggaa gaagacaggg 1620
aattccgctg cgagaactct caatgcaaag tggtagctg tcgtttgtgc aaagagaaaa 1680
gccacatccc ccaaacttgc gaagaatata gaaaggacaa ggggctctct gaaagacacc 1740
aggtagaaga ggccatgagc aatgctctaa tacgaaaatg ccccaaatgc cggctcaaga 1800
ttatcaaaga gtatggatgc aataagatgc aatgtacgaa gtgccatact ctcatgtgct 1860
atgtgtgcca gaaggatata acgaaagagg gctatgccca tttcggacgc ggaggatgct 1920
cccaggacga tatacatagc caagaccgtg atgacagaga gattcagaga gctgagcggg 1980
ctgctatcga taagattcta gcagagaatc cggatatata cgaggagcag attcgagtgg 2040
gccatgagaa aacaaatgct caaactcgcg gagttcgtag agaccgcgg ctgcaaccag 2100
caattcaaata gcgggatgct atgagagtta tgagggcgga catgggggggt ttctaccctc 2160
aacagcacca gcatgctaata acagctgcgc aaagacaact ccccgctctac cctccgccag 2220
cttacaatgt accataccct atggactatg gcactatgtt caaccacact ttcctggct 2280
ttaatgtcct tcaaaggggt ctccagccg gcaacctccc agctcagcct gcggttatgc 2340
agcccatggt agtgggcttg gccaaacctc ctgcaaactt tcaccacag gacattcaga 2400
atatcaccgc gtttccccct cagcaaagtc tacctcgaa tcaaacgca gcttatcgcg 2460
gtgtcggttt cggacccttt tgagttcctt aaagaagcaa tccagctcca cgtctacctt 2520
ctttcccggt tggcagtaca acttcacctc atacacctc cgaaatttat ggcctaaata 2580
attttgata ttcgattcaa tcttggtcgt tggagttaac ctacgttccg ccgtataccc 2640

agaaaagcgt tatttgcctt tcacactgag cgtttcttgt tccagtcttt tttccctcct 2700
 cgtacttcta ccgtctcatt cttttctaga gggctctgat acagacactg atgggtgact 2760
 gactatactg caacgcagca ttctgtttcg cgattattgt cctactccct gaaacgaact 2820
 tccattcccc ttaactgtcc aaacatTTTT cgtaccaga aggcatacaa ctttcagaac 2880
 ttagactcat catacatgcg atgcattttc tgcattttcca ttatatctgc tctaatatgt 2940
 gcataggatc catccatacg agtttgtcct gtactctcct tgggcactta atgcgtggcg 3000
 tattcaaccc catccgtaag accaaccatg aaatgctcac tattcactca ccgatatcga 3060
 atatgcttat atctctctcc tgacacacct atacttcagc caagatgaga taaaaaatgg 3120
 gaggtcccc tgtgcccccg ccaactgaag cgcccttcgc accaccatag ctggctgacg 3180
 tcaaaccttg ctgcagggac cgatatcttt cgaattccat acggttcggg ccacactgtt 3240
 atcgactcca gctatcctat gaatgcagaa ccagccagta gaccacatag cttgatgcc 3300
 ggcagtcaat cagacctcgg ctatggcttt ctagacgtag attgaacgca aataactgac 3360
 actgtatgtc gtgtttaatt ttcttcccta cagagctact caatcatatg aaatactacc 3420
 ttgggaagct tgtccccctg gccttcaacc atgagtacgg gtgattattg agaggctcca 3480
 gctcatatgg ataccgactt gactcgacct accttcgcac tgcgtgctgc tgttaacggg 3540
 gggaaggatg gtaacactca tagctaaggc tagatagtta gatttgctag taggaaccgt 3600
 gtaaaaaaac tccgacagga caagacgca cgacaaagta caggcagtgg tatgaatggg 3660
 aaggtgcat gaaggatgga aaggagaaga gaagagagaa gagaggaaag gaatgttcac 3720
 gtgagagaat atgaaatggc ggaatgaaag agatgatgaa cctgatctat gtaaatgcc 3780
 tgcgagtccc aaaattcgtc cgctcccat tttatatatt tgcaccactc attggacgac 3840
 gataccagaa tttcacttca tccatcatat atgttcgatc attggtcacg ctaaaacaag 3900
 aagtaatgag gtaaaaaact gttaagaaac gaagcacccc cgaatgctcc acagtagtag 3960
 aaaacttggc aagcagaaaa tatgagcagc aagtcagttc atttatggcg gatgctcaga 4020
 atccaccggt tcattgaact tctgccgtgc ctcttcacc cataactcga gacgaagtgc 4080
 tccggttct acacgacgta ccggcactgt tttggcacgg ccgttggaca ctttcggggg 4140
 cggttgttgc ggcccaccgt tcttgagctt cgaaacggaa tatggagccg aacatgatcg 4200
 gagatgaact ttgcctgggt ccgccacaac ccaggtctgt tcttctgttg tgggtccccg 4260

aggaggttaag gcatcctcgc ggaa

4284

<210> 1822
<211> 5044
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 1822

cagagaaata cctcactcat ggtgcttcgt gcccgctttt tccagctaaa cagcacccta 60
ttgccgggtt gccgatttat catgaacgat agtaacaaaa gcaccagcta ggtcatccgg 120
aacgtagagg gcctcagcct ggggtaggat agccaccttg aatctgcctc gccgtcgtta 180
cataccgaaa tccccacatt tgcgtagtga ctataacaag tcttgagttc agaatcattg 240
aactgttcga actgcgatga gatctcgtca cccgtaatcc taacaatacg accgtgtcat 300
tgtcgggttg ttaaagggtg agcaagaaaa tacggcacga ccatcacgtt gcaggagaat 360
cgtcggtgcc tgctagagcg gcttcgagcc gagccttctt ggcccgcgcg ttcattctcg 420
gcttggaag aggccttctg ggcccatccg catctggctc agggcctgta gatgccttcc 480
ttttcaaatt gtcgccattg ttatcagcgt ttagcttagc acctgtatcc tttacaatgg 540
ccacagaagc agctgcttcg gaagcaggag ggatttgtcc accgtcaaca acgtcgatga 600
taccgcgcca gctgggccgc ttcagtcggg ctagagcagt aactttcctt gtttcgcgcg 660
tgatcgctc cttgcccagc tctgtgaca aacccatac acatgccaga ttaatcacat 720
cgaacggagc gcggacacct aatgcccttt tggcctcact cgacacaatg attccgcgac 780
cacgggctgc gcgaatcagg gccatcgcgt tgccgatcag atttcgacgt gcttctagtc 840
cgcttcctgt gactcctggg ccgtagcata tttcgaagcg gataccgcga gcgatagcag 900
cagaaagcat cttgaacttg aagtataag ggtgcctgat tgagaggtct aaggaaatga 960
tgtcgcatc tgcattggtg catgcattca gtaacgcttt ctcgttggtt gggcgcacgg 1020
caaccagatc ataagcctga gctatactgg taaggcgctg attctgcgcg gggctctgaga 1080
ggggtatgtt gaggcgcgtg aggagcgtaa ggtctttcgg ggcgtcgcgt ggaagcggcg 1140
gcgggtagg gtttgggggg agttttccgt tgatagtctg cgaaagggca acggttgtgt 1200
aaccactta ctgtcagggt agcttttcat gtggccatat tcaacctgaa aaacgcccgc 1260

tggtcgtgtg gccccgggcg tggccagggg agaaaaaggg taaaaaatgc ggcatacgtt 1320
 cggcgagaaa gcttagcggt gcagagatct caggatcacc cgggctataa ggcacgttca 1380
 gatcgtagta catgacgaac cgtagaggtt taaaaagggg ccaatgccag cttctgttgt 1440
 tgtcctctgc tcctcagcaa agaaagaaca agctcagaac tgtcccagaa aggtaagcca 1500
 cagtaccgcg atcaatgttg ttccgtgata gccgcacgt tcatacagac agaccaaadc 1560
 tggccccgtg actctaaagg cggagcggtc agtcggggtc aatccactat tatcagcaga 1620
 ataggttgaa agagcctaac tttctcacca gtgatagctc cagacgatag cacagctgcy 1680
 acccatcaaa tcgcctcggg tgcgcttccct cttgcyggtg ctgctgtctg tctatcaagc 1740
 ttgcgctgat ttctcacgcc atcccagttc atcccaagc accgtccac caaccccgcc 1800
 gccgcttttc gccagttctga atatccaatt gtgggcttga taccaacatt gcttttcagc 1860
 cgccatcacc atggcgcgcg tctacgctga tgtcaataag cacatgccac ggtcctactg 1920
 ggactatgac agcgtgaaca tttcatgggg cgtcctggag aactacgagg tggtcgcaa 1980
 aatcggtctg ttcccattca gtatcgctga gatttgagga ttttgtacta atcgctgctc 2040
 atgcaggccg cggaaagtac tcggaagtgt ttgaaggaat caacattgtc aactaccaga 2100
 agtgtgtcat caaggttcta aagcccgtca agaagaagaa gatcaagcga gagatcaaga 2160
 ttctccaaaa tctggcaggt ggacctaatg tggtcgcygt gcttgatgtt gttcgcgaca 2220
 atcagagcac gaccccgagt ttagtttttg aatatgtcaa taataccgac ttccgtacgc 2280
 tatacccgcy cttttctgac tatgatgtcc gtttctacat ctacgaactt gtgaaagcgt 2340
 tggatttctg ccacagcaag ggcacatgc atcgcgatgt caagccgcac aatgtcatga 2400
 tcgatcatga gaagcgaaag gtttgatgcy ttctgtttt gaatgaatga gctctgattt 2460
 tcttctagct tcgcctgatt gattggggtc tagctgaatt ctaccacaaa ggcacggaat 2520
 ataacgtgcy agtcgcctca cgctacttca agggccctga attgctcgtg gatttccaag 2580
 aatatgacta ctccctggac atgtgggtcgc tcgggtgctat gtttgcttcg atgatcttcc 2640
 gcaaggagcc tttcttccat ggcaacagca actccgatca gttggccaag atcgccaaag 2700
 tgcttggaa tgaggaacta ttcgagtatc ttgacaaata tgagatcgag cttgatcctc 2760
 agtacgacga gatcctttcc cgttccctc gcaagccttg gcaatcctt gtcaacgcgy 2820
 agaaccagcy attcatcagt gatgaagcga tagacttctt ggacaagcta cttcgttatg 2880

accatgcagt aagcctactc aatgcatctc cgcaaaggat atctcgctga cctgcattta 2940
 ggaacgcctc accgctcagg aagccatggc tcatccttat ttgcacaaa tcagagccga 3000
 agaggcggct aatcgaagta ctgcatcctc atgagtcgtc ttacgatcat acatgccgtt 3060
 atcttgatct agaaacacct cgctgtctag accttttccg atgataatta tcgttctacg 3120
 cgaaccttac gaatcctctt accacaatat tctgaatttg gtctacgtgg agaaatacct 3180
 gtgaagatca gcagtgaggt tatgggactc tttcacttgt gctggatttt attgaaagat 3240
 gccgggggtc aaggactggg ggaaatgggc ggagcgacga cgaacaactg acataaattt 3300
 acctctgttg ggtattaacc ctacagccct ttccattggc gcgttgagcg ggtagcaatt 3360
 cctgtggcag aatcggcgtg cgggtattgtt tacttttgtt gtttgcgcg cgggtcagaa 3420
 ctccatctgg ggccaacgtc tgcttttctt actctgtctc ctcttgagta gttggactgg 3480
 tgttcatgga aatttttctc ttcaactcct acaacctcct ctctgcatta tttatgctca 3540
 tcatccttat tccttttcta ctatgtcctc tcgtggtttt gattgcagct atcgggacat 3600
 tcatacattg ttatcattga atggcgcggg ggttagttcg acagtcatat aatacactca 3660
 tgattcatac acatgctgta ccgctatgtc ttgcgcttca gttgaatgag tcagaagcag 3720
 aggaataggt cacgtgcccc gagatttggc cggacgtcaa gttattgcg ttcataattaa 3780
 tcccttgagg acccatgtag acttagcttt tcgagcagcc atccgcttgt tttgttcggg 3840
 gatgttctag acaatttaca ctattgtcag gccaaactga attcatcatc tttcctctaa 3900
 cagcattgca ctactgggga ctcatccaag cccgcagtg ccagacttga ttcgttccgc 3960
 tctctgttca gcgcctggga aatttaattt gccgcattt cccacaacgt ccgaccctc 4020
 cccctcttat cccttgtcgc cgtttgagtc atcggtggtc aagatactta tccgacattt 4080
 cgtggcgcg gcggcgccta ggagacttgc tcctccaatc tatcgatctt tttcaaggat 4140
 ggctcaagac tcagcttcca tgaaccaag tcagcttcat ccagctaac ctacagtcgt 4200
 cggatggaag aactaatgac tgaccttctg acagctgggt agccgacagg cccgaagggt 4260
 gacgttcctc ctgttgga taatggccaa cagaacgctg gccaggatgg agccgcgcca 4320
 aaggtaaaaa ctgagaaaga acgtaagtcg ccgcaaaaag ggaacgatct accacatcat 4380
 attcaatctc atctcgtctt gctgactgga ctatgcctgc ttagtggagc gagagcgcaa 4440
 aaaagccgag aagttgaaga agtttcagga gaaacaggca aaggctgcag ccaaaactac 4500

gacccccaaa gccgaaaaga aagcgcccaa ggtcgaaaag gacaagacag cagacgcgta 4560
tgatcctaaa gttattgagg ctggacgata ccaatggtgg gaggaacgcg gccttttcaa 4620
gcctgagttc ggccccgatg gcaaggtcaa gcctgagggc tacttcgtta ttccaatccc 4680
ccctcccaac gttaccggat cgctgcacat gggtcacgct ctcacaaatg cccttcaaga 4740
cactatgatt cgctggcagc ggatgaaggg caagactacc ctgtggctgc ccggaatgga 4800
tcacgccggt atctccactc agagcgtggg tgagaaaatg ctttgaaga aggaaaagaa 4860
gacacgccat gacctngtc gcaaagcgtt tctggaaaga gtctgggatt ggaaacacga 4920
gtaccatggc aatatcngta atgctttgcg aagagtcnga ggctcttttg attggactcg 4980
cgaggctttt acgatggatg acaaactctt cgcagccgta ctgaaacttt gtccgtcttc 5040
atga 5044

<210> 1823
<211> 4977
<212> DNA
<213> *Aspergillus nidulans*

<400> 1823

ccgcgtgtcc gaaactgttg gaataaacac atgctcaggg aggaaggaaa gaagagtgc 60
tctgtatcga tgacacttac gtagcctact gaggaacaga tacctttatc gatactatgc 120
atatctctcg atagttattc aatttatcta tattcataca acataaaagc tttggatcct 180
ctgggggttg agtcgtggcc tagccgttta tgtcatgtga tttccgtagg ccctatgtag 240
tctatattgg ttagttgggt tgatttggca tgtgattgat acctgcaacg aacgattgca 300
ttgatgggcc taatggagca gctgggacct gtcataacg caatgtgatt atcgaatgat 360
tgaacgagcg aggtgctgga cgccttatct gcctcctgt acttccaagg ccaatctttt 420
ctgcgccttt agtgtattta ctgggatctc gcctgtaccg gtcctaggcg gtcgacagc 480
tgtccatata aacgttggtt tgagcccttt gcataacctg tatgaagttt taatcaacct 540
gcagactagc atacagtacg aacatgctgt atagccctta tatttgata tactaggatt 600
ttactcaagg gttatagtct cattaggaga ttctgcgaaa tgtgtctctg gctgttgcct 660
ggggactccc caaaaccctg cggaattag caggtttggg ctcggattct ggccttgggc 720
cggttgcagg ctttgtcatg gtctagctat atacacagga agcaaataag ataaggcggt 780

aggataccaa aaggatgagg cttgtataac caagaaggct aggatctggc tttaacgaga 840
 tatgaaggca gctatgtagg gcaaaactaa gtcacacgta actccaatgg ttttttctta 900
 tagttgaaaa gaaaagattg gccttttgca ccaggaccta gagctatatt gttgagaact 960
 acttcagcag ggtagattag catgttaact agataaagac accgatgcca cgtaagccca 1020
 atgatagagg aacgaatagt caaggtaata caggacaaga ccttgggatc ctctgaccg 1080
 gacgatctcc cacggactga aatatactta tggggatata tgactaaacc ccagtatcaa 1140
 cgtcattacg aagtctatct gaaacaagta gctaagcccg atggttccac tgatgtagtt 1200
 tctcactggg aaaggctcgt tgggtctgat cgcttgctg gggcttgatt gaccttttgc 1260
 cgaagacccc cgacttccga catttggctc agggggagta gttgtaacaa ttaaagaggc 1320
 ccttaccact gttaatcact gaaaacggca aaccagctg ccatgctact ttcataagcc 1380
 ctaaatagcc tgcgtaaata cactaaatgt caagttttct acctgcagtg atgttataat 1440
 attatttgta tacgctacaa atgtttcagt tatctgcttg tcgtagtagc tagcagacca 1500
 ggggagaaaa ataaagaaaa tagtcgccgc gtgaatactg gccatcaggt gatcaacaat 1560
 gcagggtgcg ccgcacataa agtagcacat tccccgcaa ttcattctct gtgttcccat 1620
 gtcgtacaca cccctaacaa tcacattggc tttcccaaag atgctatctt ttggtctcgc 1680
 aaacgacgcc tggggtcac cctgggtggc cctcccatta gccgtgatct tatatatattgt 1740
 agtgctcggg gtatatcgcc tattctttca tcctttatcg cgctttccgg gccctgtcct 1800
 cgcagctttg actgtctggc acgagttcta ttacgacgga atccggcgag gcctgtatac 1860
 ttttgagatt cagcgcacgc atgaaaagta cgggcccgtt gtccggatca gtcccaacga 1920
 actccacgtc aacgagcctt cctttattga tgagctgtac gcgggatcgg ggaagaggcg 1980
 tgacaagtac ccctactcca cgtgccagtt cggtattccg gacagcgttt ttgggacccc 2040
 gggacatgac ctccatcgcc tgcgacggc cgctctcagc agattcttct cgaaaacctc 2100
 agtgacgaag ctcgagccta taatcgagaa tgccatcggg aaactctgca cgcagctcga 2160
 gagctattct gggtcgcagc aaccctgaa gatggacatg gcctttagtt gcatgacgac 2220
 tgacgtagtg actgagtacg ccttcgctaa aagctacaat tttctggact caccacggtt 2280
 cgaacccaac ttccaccgcc ccattgttgc cggggctgat ctgggtccgt ggggtcaagca 2340
 gtttcccgtt ctgctaaagg tgatgaacga cctcccaaaa tggatcctga cgagaatcaa 2400

ccccgaggcg gcagtctaca tccagttcca agaagaccta cggagacaga tccgtgaggt 2460
gcaatcacag gtcgataagg gagagtcgaa tgggaagatt ccgaccattt ttcacgaact 2520
cttgaccggg gatctgccag aacaggagaa acggattgag cgcctctggc aggaaggtca 2580
aattgtttgtg ggtgccggta cggagaccac tgcattggaca ctctctgtca cgctgttcta 2640
cctgctcgac aacccgcgca tcatgcgcca acttcaagag gagcttgagc ggatcattcc 2700
tgatgcggca cagtctgtga cttggcatca gttggagcaa ctcccgtatc ttagtgccgt 2760
gatctgcgag ggcctccgtc tatcatagc agtgagcagt cgattgcaac gcatcaacct 2820
ccttggaacc ctctgggtgc ggtctcggga tgcgaaaggc ggcccacacg gaaagggccg 2880
ctgggtggag tatgagatcc ccaaggggac gcccgtcggg atgacttcca ccctgatcca 2940
taccaatccc gaactgttcc cggatccgca tgagttcaag cccgagcgat ggctcgatgg 3000
tgcaggaaaa cgccatcatt cacttgacgg gtacctgtt tctttttctc gcgggagtcg 3060
tcagtgcatt ggtatcaagt aagagcagcc tgctccctcc ccagcagga gcctttgcta 3120
ggcgtctaca gtattgggcg atcttttgct gacagaccca cagtcttgct tacgccgaac 3180
tctacatggg actaggcttg ttgattcgac gccttgacca tcgcctagaa ctctttgaaa 3240
ccaccagcgc agatgttgag atccactacg aacgctttct gccgacacct aaagacggaa 3300
cacagggcat cagggttctg gtccatccgg aatcagaata atggcgacga tgccgatttt 3360
cttccgatgg aaatagtttt ggatccacct tcgtgctctg gacagcgttg cctgtcgggg 3420
tatcaaccac acaggaaggt gaccaatcta gttgactttg tttgacaagt tgaatttctt 3480
ctaattgtag cggcgccctca tggctgcgct gtgcccagc ggtggacgtg aatcagcctt 3540
acagctgcgt tgctgttcgg agcatgtgaa gcacggaatt gtggcctagc tcaactgaat 3600
ttgcagtacg aaggctcgcc gtttgcatgt tgatttgttc gtgatattgt catgatttgt 3660
tctttttccc atgaatctcg ataatccctg ttaccttggt ggtaaaccgc tgttgtttgt 3720
cttctatcag cctcatcca tggattgttt gaacaaggat aagaatttcg attcgaataa 3780
ggaatacaga ttaaaaccgt tctgacctta ttgtgaagag gtggcatcta tcagtcagcc 3840
cagcgcttgc catacccctc attgggctgc agatccatac ttcataggag cgaagtgttt 3900
tttagtggtt acccacciaag acccggtgt ctcgaacccc gaacttcaac atctccccag 3960
tgctcgtaaa acgagcgaaa tcgaacggg cctctagcct tttcacagcg cgatgtcacc 4020

tcactaaatt ggggttgaacg gtcttgacac gttttccgcc tcgcttgacg gccatgatcc 4080
 ttgccttcgc tcgacctctc tgcggagact ttagggcttg gagggtgaaa ctgcatgtct 4140
 ataggccata tctgttgacg cctatggtag cagaaagctt gggccgccac accaaagaaa 4200
 taggagactt tggacacctc atgaatggtc atcccagacc cctcgtctcg cgttgatccg 4260
 accacaacaa atgggtcgtag ccaatggccg tggtcgtgca gctacgacgg aactaattt 4320
 tgcgacgacc actgtcgatc tgtgacggcg acgacagcgt gtgaatagct ccgcatttcg 4380
 cgttctggag cagggtttccg cgctgtagag ggaaaaggag ttggagatca ccgagcggac 4440
 atcgtgcctc gttctcgccg actgctgcag ctgtccacag gaatccagct tcgctattct 4500
 gattctcatc gtgtgcgaga agattgatag tatcttggag aagggtgctc gtgtgggagt 4560
 tggatctcta ccggctcctc cagcattacg aaacatccca gcagcttttc atgtgggttg 4620
 ggaagtacaa aatcaacgta atgaaggagc actgccaggt tttggcgacg ttgggttacgt 4680
 tctagctttg ttgggttcgtg gtcctcgcg gtagccagaa ggagtgcac aggttgtaaa 4740
 tgagagactc agctgcgcgg tctcactaca gtgaactagg ggattaatgc atcgcaactg 4800
 ctactcaata tcagactgaa agtcatgggtg gggatatatc ggtgttattg gcctattttt 4860
 ctgccttgta ccctggctgc ttaacagcca gaggacgata gtacggcaac gcagctcgag 4920
 tattctggat tatgaaaaga tatacaaaaa gtagcgtag gaagcatcta aggtctg 4977

<210> 1824
 <211> 4418
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1824

cctgcgtaca gatggtgtgg gtagcgggtc ctgacggact ggactcagcc tcgttttagag 60
 gctaagtcta ataaggtaag cctattcgga gtgaatatgg cagaatgcac cttttggctc 120
 atagacgggt tcgtgactga ccatataatt ttactcgggc ccatttgccg tatccatcga 180
 acagtcatat gcaacgactg taacggcact gcagagcaga caaatgcaga tcgaaggcct 240
 cttggttgaa ggtctatccc ttcaatcagc ggcggcctgg cacagacttc agtctcagcg 300
 tggcgaactc cagtcacgcc acaaatagga atacttttgt ggcaccgacc tcgctctctt 360
 acggccaccc tgcatatcac gccgatagtt gccgttctgg ttttcgagat aggagtgttg 420

acgttcggag ctgcacaaat gtcatcaact ccacttttaa tttacacaac atgcgccatc 480
 ggtctactct gagtatatac ggcttccgt cagcgaatcc ccgaacctcg ccgctgccac 540
 ttgagccgct tctccaagtc ccaaccaccg attgaactct catcttcgcc ttataaaagt 600
 tggcgctagc agttgaggct gagactcaga ctcagaacca ggacaagacc agacgaacca 660
 ttggggcact tgagtcttgt cttgtcagt actgtcatca agcatcttcc gtaagcagac 720
 gccaacgcag agaagaatca aaacaggcgg tcagggtatg atcatgtgcg gtgtatgtag 780
 accccatcct acagaaaata acgcaatcta tgtgagaacg cgcagtcctc tacctctgct 840
 ttgtatcagt gatgagcaaa tcccagagat ttctcgtttt cttccccgct tcgacggcat 900
 cttcagcatg gctaacgaat acgagccctg gcggccctat ggagaagggt acgtggagta 960
 tcggccatgc taccggctta ggctccttca tgcaagccag ttacggctct acacttgaac 1020
 gggcaagcta gccttccaaa agatccagt agttgcttgc tatgggtaag cctagaccga 1080
 atctttggct taggctcggg catggctcgt aactgtccc gtttggctcc atcacgggag 1140
 agcctcagt aggtactga tcgttcgaca tactatgatt ggctgatttc aacgggatgc 1200
 caacgtcaat gcacatcttg aggattccat accagtctgt tccgtcttgg tcaatctcgg 1260
 ctgaggactg tagtgattg gctaaccxaa cgaggcttat cgacgtctta accatgcaa 1320
 atcgtcaggt ttcaccgctg acacaccaag tattgtggcg ttcgagttct tgcccacta 1380
 taaacagatt tccggctgaa gtggataacg agctttacca gtgccgctgg tcagattagg 1440
 tagttggatg catatcgacg tagatctttc gcactccaag gaaaatgctc acctgtcgtg 1500
 tcagaaactg cacttgatca aattagaatg tttcacatca atggtcctc ggttcagcgt 1560
 ctgtgccttt tgggccccca actatgtgct tccattgcac tgctgaggcg tgatatgaaa 1620
 cataacacaa aacagttaat tgaccagtca cttgttaca gatgttgttt gttcaaagtt 1680
 gtgagacgaa tttttgctag cctctctgca tttgaaaagg atggcaagat gcagcgaaga 1740
 gcagatctgt cacatcactt tcagagcacg atactgagga aaccgcatgc atcttacaag 1800
 ccactgctgc gcatacatc tgaagtctgt tgcgtacaa tcggactagt cttcatacg 1860
 gcattctctt ggttatcagg atttttgatg gtccggaccc tcaactgtac gaagtacaaa 1920
 agcctcaa at ccacgacgg cccaagaga ctcatgaatg accctcagaa tccttttggc 1980
 tctcgagaaa ccagtatcta cagatcctat tggatggcc gtccagcacg gacccgacat 2040

ctggcgtcag agtgggcatg gtaatacgat actacactct ggaatgtag atttgattat 2100
 ccttattccc gagcatctac tttcattgaa taatacagtt taccttctca tgcacatatc 2160
 tttaggtgca ggaccttatg actcggatta tctgcacttt gacctatac cacgcagagc 2220
 acagacagag acacctagac agagttaatc aatccgacgg atctctgccca taccacttga 2280
 tagacatcca caaactggac tcaagtaacc cgaaagagag tctagaccag gaatttcattg 2340
 gcatgacacg gcacgacctg ccacaaaaag taatctagct ggtaccaaac cttttggaag 2400
 ggttcaggac aggctcaagc tcaaaataga tgaagaactt gacctgtttg gactagccta 2460
 acagatttac caagttactc cttgattaac gacagatata acctaccata acaaactgta 2520
 taggtaghta cagtagcagc agcaatagtg gtaatggatg gaatgaatac gtagggttaa 2580
 ggattatatt acactatcaa gttgaatagg agagtccacc ctgcttcga cgctcctcac 2640
 gcccgttcgg tattgcttcc ttcagcttac gtggccataa aggtttcggc aagattccag 2700
 caggctgtat ctacaattat ccagtgcggt ttgacgtcga gttccccctt caccttcaac 2760
 cttccgtcaa acagccagaa acatcttcaa ttgtccagtg atatggtaag aaaagtctat 2820
 cacagctatc tgtacaggta aactcggaga gcgctcttag cgactcgtgt catagtactt 2880
 gaggcgcggc tttgcatttc tcgtccatgc tatgttgcca acggagccag ttgcgttcca 2940
 gcagctcaac ggctggtggg aagtggatg cctagccagc agggaaatggg ggcgagtgga 3000
 gagacagccg gatacgagac tttagctgaa gcttcctgtt gtttcttgta tctgctattg 3060
 ctgctctatt ctagagcgtg gccattaaga tgggctgaac aattcgagaa cggacttggc 3120
 tcctatttcc tgagtgaaga tgggtgggtt gtctatagta caagaaggtc aggtaaggag 3180
 tataccagtt ccttactcgg ttttttactg agcatgtgtt tcttgagag cgatatttgg 3240
 aaggagacgg gggttttcta cttacaataa ttgcttctta tgctgccata gcctccaaca 3300
 gtctcgtcac taccagcacg aaggatggtg gaagtccact gtttctgagc caccagacgg 3360
 cccctgagag gcacctttgg ctaagacttt gcgagctttt cttcttgac gcgcatgatt 3420
 gttgattggg aataaaggca agtccagact gtggacctga aagagaaagt gggtagtag 3480
 cgagaaggga gatgaaagaa tcgtgttaaa gaggaggaat aaaaaaaaaa agaggatgag 3540
 aaggcgccaa agagaggata aagttgagtg gataacacaa tgatagcatg tttttcaatg 3600
 actttgacac aagaaaggtc caaaactacc acgcatacac catcgcaatt aggatagtcg 3660

acgttttgaa ctgggtcaca attgcttgca tgttcaattc gcttctatag tttgtaatca 3720
ggaccgttgt caatatcgaa tggggatgct ccttgccggt tgggtctactg caacccatga 3780
gcatcaattt cttccttgac cactgtgacc gtcatttctt atggagcttt taccgaccaa 3840
cagtacggac acgagttgat ccgccagcgc gtttatatat atgtcggcct gttacgaaag 3900
caaagtccct ttctagacag tcgtgccggc tctcggaaga gtgcataggc cttcttactt 3960
ctattcgtag gatgatcaag ctttaagttgc tagcaatact gcaggaacat acgaaaggcc 4020
tatacattgt accacgagac ctctgccggt gaggacatgc gccgcattac caacctcaac 4080
atccagcagc ttcgactgcc attcttttaa cttgctgtca ttcaagtttt tcgtatgttt 4140
tcttaatcga ctggaaaaga acgaaagaga cgaaggacct gtacagactt ttggagtatt 4200
tcccggcaga cacctcggtg aattgcccgc ttttaagcac gattctaaga gagccacaag 4260
gagatttgaa aaaatacccg ggagacagat ggcagaagat tgcgattctc cctgcaagtt 4320
gaaccctcgc aacgaacggg tctaattggc gcacaaagaa gaccttcagt tcaaaagtg 4380
gctctagtta ttgaagaatg caggttgaat catgataa 4418

<210> 1825
<211> 3779
<212> DNA
<213> Aspergillus nidulans
<400> 1825

tactcgttct ctataccgcg ttcaaaccg caccatggcg actgaagtac agaagatcaa 60
ggtaagaac cccgtcgtgg agttggacgg tgatgaggta ggttttatcc tgagcgttca 120
aggaagagcc gcatgaaaaa taaatcttca attgcgttgt accccgccct gcatggcctt 180
gcgttggtgcg actgcgcctt atatcatggt cgatttgacc ctcgagaccg cattttcggt 240
ctggccctcc gcaggtgcgg ggagaaacgg cgaaagttgc cttgctttct gctggatcag 300
cgtaataacc cggaggttct agccttgacg ccaacaagcg tgcttgaagc ttatatcaca 360
tgtcactgac aagtactctt cctagatgac ccgcattatc tggaaggaga tcagggaaaa 420
ggtgagtcca cacttatgat cctctgcac atatcatgat gtagcttcg tcaactggccg 480
aaccctaagc taacggttac tcccatcata gttgatcttg ccgtaagttg atattgtacc 540
tcggcctggg tgcgtcgtgg ctaagatagg ctagtttccct cgatattgac ctcaagtact 600

acgacctggt atgtcttgaa tgcttgtctc ccattttcag tgcactgatc ttgctttagg 660
 gtcttgagta ccgtgaccag accgatgaca aggtcaccac cgagtcgct gaggccatca 720
 agaagtatgg tgctcgggtgc aagtgcgcca ccatcactcc tgatgaggcc cgtgttgagg 780
 agttcaagct gaagaagagt aagcattata tgctcactgc gcggaagagc tgactgacaa 840
 aacaacccta gtgtggctgt ctctaacgg tactatccgt aacatcctgt atgtcacctt 900
 taccttttga aatcccttgc tattgcagtg tgctgatacc atcaagtggc ggtactgtct 960
 tccgtgagcc cattgtcatt cctcgcattc ctgcctcgt ccccgatgg actaagccca 1020
 tcatcatcgg tcgtcatgct ttcggtgacc agtaccgtgc taccgaccgt gtgatccctg 1080
 ggcctggcaa gcttgagctc gtctacaccc ccgagggcgg ccagcctgag gctatcaagg 1140
 tctttgattt ccctggcggg ggtgttacc agactcagta caacaccgat gagtcgattc 1200
 gcggcttcgc ccacgccagt ttcaagcttg ccttgactaa gggccttcct ctctacatga 1260
 gcaccaagaa cactattctg aagaagtacg atggccgctt caaggacatc ttccaagaga 1320
 tcttcgagtc cgactacaag aaggaatttg atgccaagg catctggtac gagcacctc 1380
 tcattgatga catggctcgt caaatgatca agagcgaggg tggtttcac atggctttga 1440
 agagtgagt catctaaaac agttgatgct gtcgctgact aacccttta gactacgatg 1500
 gtgacgttca gtccgacatt gttgcccagg gcttcggctc cctgggtctg atgacctcca 1560
 cactcatcac ccctgacggc caggcctttg agtctgaagc tgcccacggc accgtcacc 1620
 gtcactaccg cgagcaccag aaggggccgg agacctccac caacccatt gcctccatct 1680
 tcgcctggac ccgtggctct atccagcgtg gtaagctcga cgaaaccccc gacgttgtca 1740
 agttcgccga ggagctcgag cgcgcttgta tcgatgttgt caacgaggag ggtatcatga 1800
 ccaaggacct tgctctgtcc tgcgggccga aggagcgca cgcgtgggtt accaccgcg 1860
 agtacatggc tgccgtcgag cgccgactca gggcaaactt gaaggcccgt ctatagatat 1920
 atcatgatct agcgttttgc ttacttttat tgctgcattt ctaaaatata acgataccta 1980
 ttcatgacga ctgcgttggc tagattctag ctagagttat tgggtccaag ataggaacat 2040
 ttgactacca tattgtacac ttaactgagt ggttgaggag agaactctgc tttgtattac 2100
 gaacagtga gtacagtcaa tactactgcc tattgtctgt caataggagt cctgagcgcc 2160
 tgttcttata gcttatccct ataatgtgca tcgctcgctg agcttgcaac cacatcgacc 2220

acgacatttg tcttgacaac ccgagagtgc tggcgatatt ggcccgctctc gtgggtccgtt 2280
 catatttgac ttgtaataat atttcatgat atctttttgc ctctcaagta cgccgtgcta 2340
 tccgcccttt tctgctact tactgcttcc agcaagctag gttacataac attccaagga 2400
 tagctgacag tgcacccttg gctcagaact gtgcacgacc aactggatgt tcttccggtc 2460
 tctagattca gactggatta ttactggccg ccacggggcc ttgacgcaat accaagcgtg 2520
 ctactaccat attcaggact accggctttt caaccgacct catctccacg cccatagtgc 2580
 ttcggctgct gtccctgacg acgcgccaga atctcatgct tatggctttc tttgctacgc 2640
 ctaagggtccc tgtcaggtat ttgcagggca gaagtgattt cgggcatata ttgtgcccgg 2700
 aggtgcagga tgtatgtact acctgtcagc ataacctttg tctctgtggc gactatcaca 2760
 gtggctctac ggctctttac acgcattcgc ttgggtgtgcg cgccctgggtg ggatgattgg 2820
 tttctgggtgc ttgccctggg aaataccatc ttcagttcaa tcgaccatct gggctaacgg 2880
 ttgattacag atgacggact acgccttctt cggtatcctg attgctgggtg ggatttgctt 2940
 acatgcatat cttggagcta caaagtactg acgttagaca gaaaatgcca acggcctggg 3000
 gaagccgaaa gagtctctta ccttgggtca atatcgattt cacctcaagg tatgcagcct 3060
 gacacctcca ttatcggtaa ctgggaactt gcgaatgaca ctggtagctg ctttggatat 3120
 ccgttccttt atacaacctc tccttaaacc tgacgaaagt gtcgatggtc ctcttatacc 3180
 tgcgtctttt cccgtctaga cactatcaga taatattgaa gatactgctg ggattggteg 3240
 ctctcaccgg aatgtacatg gtgcttggca cgctgttcgt ctgcgttccg atccatacgt 3300
 tttgggatcg acaaaatgtg gatgagaatt gtgtctcgcg agcgggtgggtg tggtatctca 3360
 ctgctgccct ccagatcgct ggagacttga ctcttgtgat tttgcctatg cccaaattgg 3420
 tcatgctgcg cgtccctttg aggcagaagg tttgcctgat agtggatatt gctcttgggt 3480
 tgttgtacgt ttcttctccc caggttatta tggacaacga cccagcgtaa actaacggat 3540
 atgattaccc agtattgtcg caacaagtgc agcccggtac gactccctga tcacgctcgt 3600
 aaattcaaaa gacctacca gttagtttag cctctcagat gttgccgagt gaagaaaagc 3660
 taacatgagg tacttactca gaagctaacg gcctaacgc aacctgggtcc ttgggtggaaa 3720
 ttaatgttgc gatcatctgc gcaagtctga caacattcag acagctcatt atacagata 3779

<210>

1826

<211> 4837
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1826

```

caagaacttc ctaactgaag agacccttgc ctttctggtc aagctggcta agcaagctgg 60
ggtcgaggag ctccgcgacc agatgttcgc tggcgagccc atcaacttca ctgagaaccg 120
tgcagtctac cacgctgctc tgcgtaatgt tagcaaccag ccaatgcagg tcaatggcaa 180
gagcgttgtt gaggatgtca actccgtcct cgagcacatg aaggagttct ccgagcaagt 240
gaggagtggc gagtggaagg gttacactgg caagaaaatc aatactatca tcaacattgg 300
catcggtggt tctgacctgt aagttttgtc acctgagtca gcagcaatga tattctgacg 360
cgcgcatcag cggccctgtc atggttactg aagccctcaa accctacggc caccctgac 420
tcaagctgca cttcgtctcc aacattgacg gcacacacat cgctgaggcc ttgaaggact 480
cagatcctga gaccacactg ttcttgatcg cgtccaagac cttcaccacc gctgagacca 540
ctaccaacgc caacactgcg aagtcattgg tcttgagca tgcaaaggat ggcgcccaca 600
tcgccaagca cttcgtcgct ctttctacca acgcagagga ggtcgcaaaa tttggcattg 660
acaccaagaa catgttcggt tttgagtcac ggggttggtg tcgctactca gtctggagt 720
cgattggtct gtccgttgcc ctctacattg gctacgaaa cttccaccag ttccttgccg 780
gtgcacacgc catggacaag cacttccgcg agactcctct ggagcagaac atccccgttc 840
tcgggcggtc ttttgagcgt ctggtacagt gacttcttcg gtgctcaaac ccatctcggt 900
gtccttttcg accaatacct gcaccgcttc cccgcctacc tccagcaact ttccatggag 960
agcaacggaa aggccatcac ccgtaccggc gaatatgtca aatacactac cggccctgtc 1020
ttgttcggcg agcccgtac caacgcccag cacagcttct tccagctgct ccaccagggc 1080
accaagctca tccccgccga cttcatcatg gccgctgagt cgcacaacc tgttgagggt 1140
ggaaagcacc agcgcatgct ggccctgaac ttcctcgccc agtctgaggc actgatggtc 1200
ggaaagaccc ctgagcaggt caaggccgag ggtgctgctg acaacctggt gcctcacaag 1260
accttcttg gtaaccgccc gacgacctcc attctggccc agaagattac acccgccgcc 1320
ctgggcgctc tcatcactta ctatgagcac ctgaccttca cagaaggagc tatctggaac 1380
ataaactcct tcgaccagtg ggggtgctgag ctcggaagg tcctcgcgaa gaagattcag 1440

```

aaggaactgg aaaccgaggg cgagggcagt ggtcacgact cctccaccag tggcttactc 1500
ctcgccttca agaagaaggc gaagcttgcg tagcgccctt tttattttgg ccctagggag 1560
aaaagcagaa aagttgtgaa taattgacga gaacatgagt ggtacatctt cgggtgttttt 1620
tcttttggct tcggaatcaa atgtttaata atacgatagt atgatcaatt aaacatttta 1680
ttgaattcat atccagtaaa aattccattg ttttcgcacg aactgggtggc ggccaggcgc 1740
cccgttgcat ggtcgctaag gccttgagcg agcggagaat cgccgactcc aagggttgctt 1800
gctgggtcaa ccaccgtgtc tcctctccgg attcatcttt ttagaccaag tcattatcaa 1860
tacattgtaa ctcatacctt agccgcgtgt tcagctattc accgaatcag ctgtgcgcgg 1920
tatccaatat gacttctgcg ggaagaatgt ttcctccctg gaccctgggt gcttcatgct 1980
tgtttcaa at tgcggctgcg gggagaactg atggctacgc atacggccag ccgatgccag 2040
taacctgttt gaatcggaca atgtgagtag aacctggagc actgagtcta agaagtatcg 2100
agacttcctt ccatgatcaa gtactgacgc cgttttctgt acccagcgac tccggtgaac 2160
atgtatgtct gacctcaata ccgtgataca cttccaaacc atttccaacc taagcaacca 2220
cagaacaacc tcaactgaaca gggtactaaa ttatcactac gctagataac cgacgatctc 2280
ggaaaactcc aattcatccc cttcccaaca tgcaaagaga cctccgcccc cctcgccctc 2340
cgctacggtg tctccgaatc agtcaattgc accatcgagg ccctacctga tgaactctac 2400
catctactcg aatattacgt ccaactcagac gtcccatga cgtgccgctg gccaccgcg 2460
cccctcgact ccagttctgc aacggattcc aagaccgacg agcagaatga cggaaataac 2520
ggcggtgata atgtctctac gctagaggac aatggaccgc catacacgcc aatcacgttc 2580
gcactgcagg gaactctgca aaaaagccac ctgcacatct ggacggacat gaatgtttta 2640
gcgcacaata tcccgaggt accgtcgcca gagaagacaa agaccgcgaa aaaggctaag 2700
gagaaaggct atatggtcgc gggaacggca tactcggttc cggaattcga gtattctctt 2760
ctccacggca aggggaagaa aaaagataac gggaagaagt cagacgaaga gaaagaagct 2820
tctgctgttg ccgaggccgc ccgcgagccc tggacagaag gacacgggac aaaagtgatc 2880
cgcggtgagc cgctgacttt cacgttccat gtaagctgga ttgaaggcgg ccgaggcatt 2940
gggtggccgg gccgtgatat ttcggtgtcg tcttcgtcct tgtccgggtt ttggtggttg 3000
ctctcgaagg tgattttctt tggaattgcg gcgtcagtgg gcgcgttggt cgcgctttat 3060

tgggagcgga atggcaacgg aatcgtgggc agacggaggg gttggaaggg agatgggac 3120
 ttgggtgttc cagctgttgg taagggggcc gtgggtatat catttgaaa cgggtcgaga 3180
 acgaacggat atgggtacgg aggggtattct gccaatgggt ctgggggtgg atatggcgg 3240
 tttgcgagtg gaaagagaga ttgatgggtg tagcttggtc tgggtgttgg ctacattgtc 3300
 ggggatctgt aaatataaaa cgttgcatat tttgtttata gccatacaa tgcgaccgtt 3360
 cacgtctaaa aaacaatgca gaaactcttc agtacatggg aatatacaca tcaacttgat 3420
 aacccttatt tttgtcgaaa aagtagatgg gcatactgcc tacctaccac cttgcgccc 3480
 tcatcctctg gatctttcca accgtatgcg caaatgaata agcaaacagc tttctccatc 3540
 ttggaatccg caagtcttct ctcactgggc cctccgaac atgatacttc tggccaagt 3600
 actgatactt aacattattc tccttgagaa ttcccgaag tctcttgagc gcgacttcca 3660
 aatcttgtcc gcgctcaggg acaacagcta catcacgacc cagcgtcgga ttaagcttga 3720
 ggtcgaccct gcggcggttc tgacgaggaa ccgcgctggg gcttttgccg ctagagatgc 3780
 cagtgccaga ttcggcagtc tgctgactgg atgcttcggt tctagacggc gcgcggtttt 3840
 gacggccagt gctgagattg agacgggtga ggacttcgtc gatggtgcc gggtacttgg 3900
 ggcggaggag ctgggttcgg gggggcggag atgcgggtgt agtgggtgta tcggtgttgg 3960
 tctcgagggc gttgttggtt ggggttgagg aagaaaagcg gagcgattga ttttgtctgg 4020
 tgaggaggaa ttggctgtgt aaaattgatt ggcgagttga gaggaggaag tgttgtcgcc 4080
 gtcgttgtcg gccttgaacg gaggcagcga gttaaagatc gctccattgt tccgtcttgc 4140
 ctteggactc gatctgaagt gaaaaaata actccagtac aaatgacgct ctcaacaatt 4200
 ctttcttgac tcaaacgtga ggcattggaa ggagcggcag tcaccaagg cgtggtcgag 4260
 acgagatatt gcagctccgg cttcattttt ccagatcgga agtctccaat caatcacgtg 4320
 atgttccttc agatagtatt tgattatttc aagaacgttc agcaatattc gcaactcata 4380
 aagcacacca aatataccaa gcatccagaa tgtcctcaat cacaatagct aacctccac 4440
 gcataagccg cgatgcgctc tcggccctca tcctctctgc atccacgcct agcaaactag 4500
 caatcattga cgtgcgagac tctggtaagt gaccttgatc actcactcct gcagtcacta 4560
 acataatatt tagaccacgt tggcggccat atcgtctcct caacctgggt tcccagctcg 4620
 aactagatg tccgcatacc ggaactcgtg cggaccctga aagataaaga gaaagtcgtc 4680

ttccactgcg cgctcagcca gcagcgcgga ccttctgcag cgctaaaata cgcgcgcgag 4740
 cgcgaaagga tgctaggaag tgaagaaagc cacaagcagg aggttttcgt gctagaggga 4800
 gggtttgtcc agtggcagga gatgtatgga aaggatg 4837

<210> 1827
 <211> 2671
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1827

gacaggagtt agtgaaagga ccacccacg cacaagaaa cgagccgaat gcgaacacag 60
 gcaagcgtcc ctcaccagcg acaacaggga ccagaggaga gcacaccgca ggaggccgag 120
 cccgaccga cagcagccgc caaagacggc ctaaaccagg accccggggc ccagaaactg 180
 gctgaggacg tgccaaaact gatgcccgc tacagggagc acgggaagtg cgaaggcagc 240
 acctctgct caccggccagc ttctcacggc tatccaggga aaggctactc atcatggcac 300
 attaccgggc gatgcctttt acaactggga ccggctctgga ccacgttgct agtttgaccg 360
 agattcatct acatgcatgt atgacactcc cagcgcatcg tcctctgata cggccactgt 420
 tcgcgatctg ataaacacat tcttagtgat acttggcagc gatcaagtcc atactgcggc 480
 atcagagctc ctccgcaatt cactgcagtt tgttcgattg ctggacactc acaaagtggc 540
 ctacacattt gcgccaact tctttctaac caaggtgctt gacagcttga gggaaaaccc 600
 aacgttcacg gcagacctgt cgagccttaa ggctctgatt tccggcgggg agtctaattg 660
 ggttgtgacc tgcgacaagc tcacgaggga acttcgccgt cgaggtgtcc aagccgaagt 720
 gattcgtccc ggcttcggga tgaccgagac atgtgcagga tccatctact ctcggttg 780
 cccatcgat gatatcaggc agtcccttga atttgcgagt cttgggtcct gcatccccgg 840
 catgcacatg cgtattatga gcatcacaga gcccgaaag ctagctgcac ccggcgagtc 900
 tggagagctc caagtgcag gtccggctgt atttgaccac tactacaacg atgagacggc 960
 gaccagaaac gccttcacgc cggatggctg gttcataact ggggatttgg gctggatcga 1020
 cgatgccggc aacttgaacc tggctggctg gaccaaagac accatcatcg tcaatggtgt 1080
 caaatggagc tcgaccgagc tagaagcggc tattgaggag gaagcggttt ctggcctggt 1140
 gcgttcgttc acagtagttg tgccgaccg cctcctggc tcggccactg aggaaattgc 1200

tgctgtctac tcgccggcgt acgccccga ggactatcac gcgagatatg agaccgcgca 1260
 ggtcatttcc aagacagtct cactgctgac aggcacaaag cctgcgcgcc ttatccccct 1320
 gcctcagtca cttctggaga agtcgtcgct tggtaaaata tcgcacagca aggtgcgtgc 1380
 tgcactcgag agcggcgagt acgcgtcgat tgagcgcgca gaccagttga ttctggcgca 1440
 ataccgccag ttcaagtggc gccctgcaaa gtctgacagt gaaagagctg tgcagaaagc 1500
 cttgggtgag tttctgcaag tgccctgctga ggggattaat atggatgatt ctatttacga 1560
 cttgggtgtg agctcgttga atctgatatt gctgaggtct acgcttcaga ggatgctaga 1620
 cccaagatc gatatcccat tgtctatcat attgaataag tgagatcca cattcccttc 1680
 aaagacaaa taaaaactgt tcgttaatgg ctccgcagtc cgacccctgg agcaatcgca 1740
 aggtcgattg actcatcccg ctctagttaa gctggataca atgcatcgt gccactgcag 1800
 caacacagac acggtggtac accgttggtc tgcattccacc ctggaagcgg cgaagttctg 1860
 gtattcgttg ccttgctgc acacttcccg acgcggcccg tgtacgcgct gcgtactcga 1920
 ggttatggct caaacgagca attattcggc tccatcgagg aaactgtgga gacgtatgca 1980
 acacagattc gccaagtcca gccgcattgg ccgtatgcaa tcgcagggta ctccttggga 2040
 tccacactgg cctttgaagt agccaaagtg ctggaagcgc agggagagga ggtaaatttc 2100
 tggcgagcat tgactatccg ccgcattattg cccactacgt gcgcgacttg aattggaccg 2160
 acgtgctgct acatattgcc ttctttcttg agcttattga ccagaagacc attggtcgag 2220
 tcacaacctt acctgaacac gcttagaccg acagactgta ctgacaccaa atcttgaata 2280
 taggcgaatg ctaaccgggc agagccctat ccattgacac cagcatctgg gggtattagc 2340
 aaattccgtg actttcgcgt aacattaaga cgtatatctc tagggaaagg gagtatctgt 2400
 tctttttagg agatcctact cctatcagac ctgtactatg tattgaagag acagtttgtc 2460
 ctggcccatt ttctgaaaat tttatttatg atgtcctatc taaccaaatt ctacagttcc 2520
 attttctctt cccaagttta gctcaaagtc cagggtttta attttctctt tatcatctct 2580
 tttaaatttc ttctcttaa ttcttatctt cttcttatct cttcatctta tttctatttt 2640
 tctccctcct ctcttactta tcattcttta t 2671

<210> 1828
 <211> 2635
 <212> DNA

<213> Aspergillus nidulans

<400> 1828

cgtaacactt cctacgaaat gaccttcaga tctgcatacc caaagataaa tttgctcttc 60
gccagccatg aggataaggc tgccatcgcg agagcagtag ccgagcacga tctggtcctt 120
cacttcgctc tgagcgcaga ccatctccct tcagctgagg caatcgctc cggggttgaa 180
gcacgaggag gaggaattta cattcatagc agcggaacgg atgtccttct tgatccgcac 240
gagaacagca ctcgagcggc gaggggaatat gtgttaagac ttttgatgac tgggagggtta 300
ttggggagct tgtgtctttg cctggatatgt cacttcggct accctacctt catccttcca 360
cggtgtgaac ggattaaccg gtaaattaga tgctgcccc caccgcaacg tggacaaatt 420
tgtcctgtca tctggctcag acaccctcaa gaccgcaatc atatgcccct ccactgtata 480
cggcgcaggc cgggggcttga tctcgcagcg ctcagaccag attccaaacc tagcgaaact 540
tattcttcaa caaaaaaagg gcctgcaact gtccgacggt aagacattgt ggaactgtgt 600
gcatgtctac gatctctcgc gattgtatgt gcggttcac gagcagtcga tttccagcgg 660
ggaattgacc tggaatgagg aaggctacta cctcgtcgaa agcgggacgt atttatgggg 720
cgatatatcc agaaggatca caaacgaagc gtacgttctt ggtctcctgc cctcagagca 780
gatgatggtt gtggagatga aagaccgca taccctagcg cccgctggtc ggcctgtggg 840
caattatgcg gtcaaggcaa aggcggttcg ggcgcgaaga ttgctaggct ggactcctat 900
cgaggggagc ctagaacaga aaattccagc aattgtactg gccgaagcga agtccctggg 960
cctgtagacc aaggctcgag gagaggacga ggtcattgta taccagaccc tgggtataac 1020
atgcaagtat atatcataac gcatgacctg accacgcaca cgtacccaac cagatacaaa 1080
agaaaatgtg gccgagatta agccctgtgg ctgacagagc cgatttgcg cccagtatgc 1140
aagccctatg cggtatgac aggtcccgag tctcagaggc agtcactgga caccacaatg 1200
caagtgttga tgggtggcctg aaaattggcg aatgatgcc a gccacacag ccccgttcca 1260
gggttgactt ccctcgtggg tctggggtat tgccgtccaa tcaaagagt tccccagtt 1320
tgagtttttt tgaggggttg attgtctgat gatcaatata cagaatccac cccagttact 1380
ccgatacccg gactatcgaa ttcaagtcgg agaggcgtct gtcaatttcc aaggaagaat 1440
atgcgccgag gattttgtaa cagtatcgca tgatatgat gccgacataa tcacccggcc 1500

gtaccctatc ctatcacggg ccaaagcagg gatcacggc ctagccgtat gcaggctgga 1560
 atctccacca ctgccagcga gtgccagact tggatcacgg cgaccagggc aggggtgcag 1620
 ccacagatta tagctgtcta aaaccgcgga tcaggaacat gtttacttta tttttgtgct 1680
 ctgtcttcca tgggataaca cttctgggaa actgtacaga actccataca tgttcaaatt 1740
 acggctaaag ccagtcacga ggcttttccc cataatgatc gacagcgagg ctttcctcta 1800
 ttccgcagcc ccaggggcag ggtccacggc ctatccggcc aagagccgaa tccgtcaatc 1860
 agcgaccttg cagagacgct aggcacggag tacggatggg tgcgatacta ccgtgatgcg 1920
 gggggagcgc ttggttagga aggtgactcg tgcagctgca gagcagagag gatcctggag 1980
 tgccagcagc ccacttcgct tctgatttgg accgatggat gggcgagtcc aagacagaac 2040
 aaagtgcgat gccgggtata aagagggcag atgcgccagt gtcgccgggt ggaagttaca 2100
 agtagaagga aaggagaaac gaaactagtc aaaatgtcac tcctatcgag ggctatgtta 2160
 cccttacttc aagtttctct gattggcgct ggcctcacct ccgcggccac accgtacgcc 2220
 ctgcaacaac cccctttgac aacagattgg acggaagaag tcggcacgaa cccgtggcct 2280
 gagtatcctc ggccccagct acagcggccg caatggcaga acttgaacgg ggtctggcag 2340
 tatcgggatg ctagaaatgc ggctgcaatt gattcgccgc cctttgggca gagtcttgat 2400
 acggaggtgt tggtgccatc ttgtttggag agtggctctt ctggtaagcc tccgcaattg 2460
 cttgatctcc ttcaccaatg caacggggga tgagagggca ctggccatat atattgacga 2520
 tgttgaatag gtctccaagg ccaaagccta ttctactcat ggctttcgac aaactttact 2580
 gtttctgagg actggcaagg caacagtgtc ctcgtaatct ttggacagtg gcaat 2635

<210> 1829
 <211> 3284
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1829

tctctggttg ctgcctagc ttataaatta cttgaaagat gatgagtcag taagaggcta 60
 tcctctcgga tatatggcaa aatagagtaa aataagaaca cttccttttg cagcatttct 120
 ggaaccattc aaaatatatt cttctgccaa actctcttgc acacccttc cggtggctga 180
 gaacatatgc taaagagcca acgttgctgt agcggctgtg gctgagtttc cttagtgtag 240

ttacctaaga ccagtatact tatgtctagt ggaatattat ctcaattaac cactatatat 300
 cttatcaatc aatatctctc taggaacctt ttgcaaattt caggactagc ttcattcattt 360
 cctcgtgcgc atgtgtatta taactgtact tttgtccaca ataagtagct gatatagtag 420
 aagattgagc gtatacaatt atctttacca tagatgagta atatgctcag gacatgcgat 480
 tatgcattgc tggcgcagga gaacgtgttg gtagaagcgt catcatgaat tgccttgcca 540
 gagacataca gaccgagacc gcactgtagt agacaatctg tcagcaactg caagtggat 600
 atttgcgatg acattggtaa ggccactcac catgcacccg ccaacaagaa caatcagcac 660
 gtttatgata gcgaggcaga tttttctggg cgacgagaac cacttcccgt agttaatgtg 720
 cagccagtat acaccaccaa gtccgtaact aaaccaactg gcaaaaaggg agctctgcga 780
 tggaggaca gaaagcatta gttacgagga atcatataat ttggctgata cgagctgta 840
 gcaagactta cgataagact gagcaggctg ctgaagaccg ggatcgcgtc cgcaataatc 900
 caggcaatga tccagcaggt caagccgatg gcaatccaag agccaacaga cacgaaatcc 960
 cggcgatgca tgcggtctgt tccgcgaaag agacggacgt agatgtactt gaggccaatg 1020
 tggccgttga ccacgccagc gccacaatc tgagattgtt agttgcaaata agaataagga 1080
 agaaataatc tagtggggag agcgtaaact gtaccgtggg gatggcaata ccgtacgcta 1140
 cttttttcag cacggggcct gcagagccca gcgcaggcga atcgacggtc tggccggcat 1200
 agtagtagat tacgacggcg gcaatgacgt aaaagatgat ctcaaagtgc tgcagcatgt 1260
 acagagcctt gggaaagtcc ctgggctccc tcatttcagc cagaagacca aagaacgcc 1320
 cgtgcgcgca gtaggcgaac acgatattgg tcacggcggg aaaggcatgg aaaaggctcg 1380
 tgtcgacggg ggccttttag gtagtagacg cgcgccctg gactccaacg ccaaccatgg 1440
 tgattatgac agcagtaaag atactggcaa aggctgaacc cgtcaagggt gagcaatcag 1500
 tattttatc gctccggaga gaggaacaga tgcacgtaca catgcaggag atataggtca 1560
 tattcttcat ggtacgggga agcgagccga gcatgcagac gacgaatcca acagtcgtga 1620
 agaccatagt gcaggtgcca tgctcagtaa tagtggtcat catgacgctg aaggtaaga 1680
 tgtgacttcc catgatgaag atagagaaga ggagctggcc aatgccgaag agtcccgtc 1740
 cgaatgcacc gagcaagaca tcaccagcgt cagccagatt ctggacgtgg ggatagcgtt 1800
 ggtggaactg tccaataaca tagcctgtgt aagtagcgag gagaccagc ccaataatca 1860

ggacaagagc gctaggatga accgttagct cgcgtgatca gtatcagtcc agcgacgtct 1920
 atggacgtct ctccagcaca ctacaggagc aagccccagc tgggcaagag tcgctggcaa 1980
 tgacagaaca ccgagcgata ctgattcagc aatcataact agggttgcca ggattagata 2040
 ttgctccgcc cgetatgtgc ataaaagatg ccgtaaaact cacacattcc agtttgctg 2100
 caatcgggcc atacttgtaa gacaaacgct ttcggcctat ctgaagctct agacttacca 2160
 cactccatg gttttgtact tgacttctgc gttggactca tctccaaatg cgtccacgta 2220
 acgcggcac tgggccttct cgtcctcgtc cctccatcct ggctctgcgt cactggacc 2280
 gggggcggtg ctgactttgt cagggctcat ttttctgggt ctgagtgagt atcgacgaag 2340
 tcttctgggc caaaattctc ttgtatggcg atggtaaaac tcttaatagc cgcaccaacc 2400
 ccggaactcg gccagattac aaaacgcgcc ccgcgtgaga cagcttatca acgcaacaat 2460
 gcaagataat gtaataatta atggtaaaaa aagttgcaga aaattcaagc cttcttgtgt 2520
 gtagttaagc atctcccaat gagaagcttg gcctggggat ctattagata accattagtt 2580
 aacggaaatc gagctccacc ccgactgtag ccgcaataat gactaacgct atggctcgtgc 2640
 ctgcataaat gcgcttaacc agggatatctg tgagcattag agggcatgca cctgcgagac 2700
 acgaaaaatc taaaacccta gcgtccaaca agccgtcaag tttggttggg gcagccttga 2760
 gtgggtccga aagccaccaa gagccagcac taggatctc cccgttgatc agaaagacgc 2820
 gcacgaattg tgtaaataca gagctcctgg atctgcggta tcatggctaa gtctggaaat 2880
 ttgagctgaa cccaagaatg ctaaggcatt gagttcacga ctctggtaag agatagcgtc 2940
 gtcgctgcca gaaggcgata cgcaatctac catcgtttat tccatgcatg agagatcgaa 3000
 ctctgcaat ttgttcaggc agacaaaggt atagctcctc catgtccata ataagaggta 3060
 gcaaaaggag gccctaatat caggtagaat ccaccaagaa attcaggatc agcaaagtct 3120
 gctcgaaaag ggcggtaggc agtgcacaa gtaccactt tagatatcaa atggctgctc 3180
 gcgaacttta ttctcgaagg agcctagacg atgctgtcag tttctggttt accagatgtt 3240
 ccaagattat cgtgcgttat ggagagacgc tttcctcagc gtgg 3284

<210> 1830
 <211> 2089
 <212> DNA
 <213> Aspergillus nidulans

<400> 1830

taactatcac cctagacagg atggcttcta atccactaat attgttttct ttcgtctacc 60
ggacttaggg attcggggct cgagttctag taccctgact tcttcccaa gaaaagctgc 120
agctactgta gatcagagcg gtgattcagc taaatctact cggggatgct gagttagaca 180
tacatcattc atagcagact ggactaattc aacaaaccag ggagacaaaa cataaacaaa 240
cgagacacag atcaatttag taaagtatgc aaactcaaag agaccccgct tccccatat 300
aaggaaaacg aataatctcc cctttcattg tcattgcctc caagtaccct gtgataagtg 360
gatcgatacc agcttgcaat gcgcgctcag tccactcggc catggaaacc tccttgaagg 420
ggcacgcgaa caatgtctcc attcggccct tgaagtcctt cattgagacc ttgtgcccgc 480
tgagtggtg cctgactcgt gcggcagact tgctctccct tgattcagca gacagagcgt 540
ctgcggcgat cgtcgagct accctgtgta catcctcgaa atcaagatac ccttcgaagt 600
tttcaaaacg cggaacacag cgtgtgagct tggagtactt cagaagagcg ttcagggcat 660
cctcgtttg cgcttctca ccgaacactg cacacggacg atggattgta acagggagtc 720
cggatgcaag gttggcgact gattcaagga gccgttcact ggccatttg ctggcggtaa 780
accctcaga gccatctgta ttgggtaggg aggacgaaac tgaggctgga gggagactag 840
tgctgccga gagcaaggtc acgcggttg acgagatgaa atggatggga attctacaca 900
aaagagcgat ggccgccaag aactttgttg agtcgacgtt tgaagcgcgc agcgaagagt 960
agttgttcag gcagtgtcct gtgctgccgg cgtggatgat gacgtctagg gacgattgaa 1020
gaactgctat ttcggtcttg gtcaaccca gacttggcgt gaggagacta ccggtgtaaa 1080
tgctgatctt ttctgacgct gggaggcgag gtatgtcctc ggcaggaaca gctacgcaat 1140
gcactcgttc gactagtggg ttgtggagga gggactgaag gatgtttttg ccgagaaaac 1200
tggtagatcc ggtaagcaag atatcctgac ggtcatgggc cttcgtttga cgtgttgaga 1260
attggttctt ggcggcataa atgaggtctt gtgtcagggc tgtctcagaa tccaattga 1320
tactgttgatc atgggacgct tgatgatctt ctttcggcg actgattcgc cgcgccattt 1380
ggccgagagt cggaactgg tagagctctg caacggggat agaaacgcca atggattcct 1440
tgatagctcc ctggagtctg accagtaaca tggaagtcc acctcgata aaaaaatccg 1500
aatcagcgtc tagtcgtgac gggccaccgg aggcgggag caccttctcc catagcagac 1560

gtagctcgcc ttctgcgagg ctgagatgtc ttgcagtatc ggtgcctgta cccgccgcgc 1620
 tctcagtgcg ctgagttggc agaggcaggg ccatgatagc cttcctatca actttcctgt 1680
 tggcgttgat tggcaggcgg tccagggaaa cgactacgga tgggagcatg tactgtggca 1740
 ggggaaggtc tctagcgagc tgctgaagtc ttgagttgtc gacgttgtct ccaagaggga 1800
 cgacgtgagc gacgagcaat ggcgaacccg aaccgaacc agaataaaca gttacgacgg 1860
 cttcgacac cagatcattc ccagtgggtga gtatgtgtt ggcaatctca tcgagctcaa 1920
 tccgcaaacc atttagtttg acctgattgt cgccgtccat gcggcccata aaaatcagcg 1980
 tgccatcctc cgtgagacaa cccatatctc cggaatatgt acatcttcgt ccaaccgcgg 2040
 gtaatgtcct ctgggctagc gaagggatcc cgaacgaata tcgtgtcgg 2089

<210> 1831
 <211> 2050
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1831

aggatcacct accccacgcc gagcgcgtag ccatctggta tttatgagct tactcacatc 60
 gagtggctgc aggggatgtt taaaattagt cggacatgaa gcgccattca atttaggagt 120
 aaggagtaca ttaaattgtat ttaagagtag ctatgtcggg tacaaacctt gcgtgtctat 180
 ttactgttca ctcttctcac atcaatctca taccgctct gatttataaa atcctagtat 240
 ggcgctgaa tatctggatc acaggtgaga agcaagaatc ctgtcgact agctgatgct 300
 gacctaggta gaacactctc tggcggtatt gtgaatctca ccgtagggcc ctcggagacc 360
 ccgtttgatg tccatatcga gctactgtgc gaccgatcac cgtactttga caatctacta 420
 gagaatcggc ataccgaaat atcccttcaa gagctcgtgt tccccgatga cgtccccgaa 480
 gtctttgccg acttcatctc ctgggtatac tgcgggaaaa tcagcgggtc taggattgca 540
 agaaaattgt ctcggtcact gcatttattc cagctatgga cacttgaga gagattccaa 600
 gtacctgaac ttcaagatat agcctttgca atttgcaaag agctcttaga cgccgagcct 660
 gctaaggttg taggctccga ggccgttcaa catgcttact cgcattccag tccaggctct 720
 agtatccgcc aacttgcagt ggatatgtgg gcagcgagg catcgattt caaaatcctg 780
 cgatcccgga tgaacttgcc ttcagaattt atagcagatc tgaacgccac ccggcttaga 840

actcagaagt tgttcgcggt tgaggtatac atgctccatc ctgtcaccaa ccatgatgac 900
 cgtctatgta cgtttgtcac taacctgaac tacgcaaagg ctgaaaagga taccctcgat 960
 actccttttt cagttgcacc aatttccaag cagtccgaac ctacaatttc agatgattca 1020
 ccgcgtcgcy cgtcagcggc gcaactcgcc cataacaaag ataaagccct ttcttcttgg 1080
 cggcgagatc ctgatcagat atcccgactg ccgcccaggg tcctgatttt tacgactccg 1140
 gtatcccgag cccttgcacc gtcagcatca agactaccaa gatctggccg acgtaaagtc 1200
 cgagttaagc tgccaccgtc aacagaccgg tcatatacca agttctcgac gaagtcaatt 1260
 ttggggcgaa tatacaggat cgaaaataat ggtgaaaagg tgtaagcagt cagagttgat 1320
 ggtcttttcc tggaagagag cgggtaatga acattttata gctgaatgag aaataacagt 1380
 cgttcattgt atagcactta gctcaaggaa agtgaggcag attagtcggt aacgagttgc 1440
 ttgctttgcc tatacaccca gctaacccta cttcacgtgt agccgtgcyg tataaatacc 1500
 ctatttaaca tcccttggaa tagtgctttg ggtatcggtt tattaatata acccaaggat 1560
 gtagatctac tcttgatata agctatcacg gggcttcgcy tcttgctgcy ttctgcggtc 1620
 cctcttttct tcttaggcgc tgttgatggt tgcgacgtag caactattca tgggatcgtc 1680
 tgtatagaaa atgtgccgga cttgccccaa ttagagcaag aaaagaccgc caaggcaagt 1740
 gataccttgc gaatttaact tcttcagtca aatctgaaag atatttcaag ggtcttggtg 1800
 atatatcgca atgtttgctg gaggcgcggc tacacggacc caacagacaa gtagccatga 1860
 cgccaggaga taatttacag ctctgaggtc ttggttctta agataggtaa tgttcctgcc 1920
 tcatagggac gaatgaaggt gacacatact tcgtagctga cgagatgcyg tggaccgttg 1980
 ccgtctagcc cgttcatatc ttgaggatat ccaaactaga cagtaccgat gtagtaccgt 2040
 cagagcttat 2050

<210> 1832
 <211> 1581
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1832

aatacacct gagcaatgcc cgaagtaaga gaaaagcaac agatgaacaa cccatgcata 60
 taaagacgag ccaatttctc tgaaacatcg tttaaagtaa aaagagaaga aaagaagaaa 120

tattcgagaga acaccgacgg acccaagtta aataaaggaa caaaaaaaaaa ttggaaaaaa 180
aaaagaaaag tacagttcag agagaaagag aaaggatgag atacataacc ctgccatgag 240
ctgcacgagc aactgtgac ttcaacaaac aaaaagtga tattagtcaa agcggaactg 300
gaagcgatca ttctgtcga ctgcgcttag tgccgtgtgg attccacgag ccgtcaccta 360
cgccttggtt ctgaggaaag aagccggtat tgaaaccctg gttgggacct tggaagccac 420
ctataactgg gaaaaaatga atggtttagat atctaggga aacatatacc ggtagtaggt 480
gtatgtgatg taccttgcac gcccatgttc cctcctatcc cgcccatcat tggattcata 540
cctccagcca tcggattcat gcccatgcca ccattggac ccatgttttg catacccatc 600
atgttgggtc cgccagccat gccgcccga cgccacgca ttccgccttg tccgccgcgc 660
atgtttccgc ccatcatacc gccacggcca ccgaatccgt agttgcccat ggccatttga 720
ttaccctgga acccgccgc gaccataggg ttgttgaaac cgcccatggg gttattgaaa 780
ttgcggttga cgtagccggg catgttcgac atccctccgc ggttgttgaa ccctcctcta 840
cctccacgga accctccgc catgttgccc atgcaaaaat ttgcgttggt ctggttttga 900
gaattgaatc ctccggttcg cgcattgtcc ttgcgcatgg ggttgtcttt agggagtgt 960
cggaatggat tcggaatggg gctagtatag ttgactagga acttgcgtcc actctgtcct 1020
gtagtggaaa gggagtcgat gtggtgctta gtggtgttg cggcggggag agatgtgaac 1080
tctaggaatg cctgactgta gagagaacac acatgagtac cggatgtgac atactaaagc 1140
tcgacaactt accctttact ctttccatta acctgtgtt cgctgaaagt tacatctttc 1200
agctcgtcct cgcacccggc ttccgctgtc cagcctcgga tatcatcatc tgtagtcac 1260
cagtgttaact ctgagatgag tagcgcaggc gtcgcgtcag gatcaaccgg gcgttcgtcg 1320
agttccttgc gtttcacacc ctgttgggga gttgtgtctt tctgcatttg ttgattat 1380
gtgtctgatt gtgttacagg cgcgccattt gttgtgacgt tgggttgttg ctgaatagt 1440
ccggagtctg tggagttgcc actgttttga gcgttatcgg acgcatcgag aatgagatct 1500
gtgtcttctt gttcatgtc atggtcctgt ttgaagtcgc cttgatcatt ggcgttgtag 1560
cactaccatc tccatagatg t 1581

<210> 1833
<211> 2134
<212> DNA

<213> Aspergillus nidulans

<400> 1833

atcgttggtg tagaagcggt tcgagatcga tgccccaact ctctcagccg gggatatacgg 60
ccaccatcag acttgtagca catcgtgcga cgctaagtcc aatttccagc tccagtctcc 120
cggatatcga ttagaacgtg gcgcgggata gtgtgaaggt agaattcattc cgtcttgagt 180
tgaatagcta tattatgaag aaactggaaa caattgtcca gtaagcattg tcggcaatgc 240
gagaagaaag gagcacactt agcacctagc aaacatggat atgggtgggtg tatctgcaag 300
tatgaaactg gaaaagtgcg gttcgcgcga gcgatgtaga tctaagcttg taaagacgga 360
agaatgcaac cacagacttt gttgagtaga aaaggaaacc agcctctcca acagaacata 420
gatgatgtcg cgggggggga aatgaggcag ctagttagat atgaagctgc agctcgatca 480
tgacaaggca aagcaataag aaataggcga caagggtgtac atgccaagc ggtatagtgc 540
gagatatgca ggcgctccgc cacaggcagg tccgctgtgg ctaagatggc gaaatagatc 600
cgagctgggc ctgcacgacc acgtcagagt cgcataact ttcaggccac gcctaaattc 660
gaaaaggcat gggatataccg aggaacttaa gctgtgcgtg taacaacgca aaataaacga 720
gagtagaaga tgtgagagat gcgattgcgg cagtcctgac ttgcgataga tctggaatct 780
gggccttttt caacgtgaga acgtgcctcg cgctaaattt caaccctgct ggggcctctg 840
gggtctagtgg ggaattcaga tccccattcg caggggagcg atccatctaa agacgaccat 900
gagggatcct ggcgcgatgt gcgagatcga cgccgggtct gcattcgaga ttggtgtgac 960
gaaggcaatc attggtgaac atgctgcacg ttcgtctttg cagtatcaac ttcagctatc 1020
tctcgaaggg taagagggtc aacggcacca ggcgtcggtg gtcgataaaa ctggtgggta 1080
acgggatgaa gacaattcga cccacttttc tcaatatttg caagcgacga caggtacgaa 1140
tctcacatca actcaaaagg acgcggtatg accggcttta aaagcgggtg ggccgtgcga 1200
ggaagggtgac aggttgaagc cggggcgagt ggcggaagat agcgagaga cggcttaagc 1260
agaacgacca taggcaaaac agagaacaat atcagaatct ccactagctg atgatcgaga 1320
caaaccgctg tgatagtttg atgggcagag aaaatatgca gtagcttagg actctccttg 1380
gccagtagtg ttgctggagc agaattggtc gatttgatgt aaagtcggat aatttgcccc 1440
taggctgctg gggagatctt tctggcagta cagtacagtc agcagtcggt caggtgctgg 1500

tcactgcact tactgggtcac tgaccacggc cgatcactac cggagacacc gaactcgacg 1560
tacagagtac gtgtgagacg ctacgtaccc caactgactt ttagcaatgc atcaagtcag 1620
tttcgagttt ctcgcatcat ttcgcatatg tcccagttgg ttcgcccga ttcccaaaat 1680
aaggcatact tgccccacca ctcgcaatgc attacgagca gggcgagta ccaactacaa 1740
gacctcgact ctggacagct aagtgggaatt tctacaccgg cattattgga cactcgagac 1800
tttcttgcta acaattaacc ttcgttggtt agtgggaatac cctgacgata cacaatagaa 1860
gcgaggcctg tagaaagttc gctccgagtc cgaacgtttc gttgcacagc caacacaagt 1920
gaccggctat cgcgagccca gattgggcaa aagaaagttg tcttgtcaca gagaacgtga 1980
atgctgagaa gtgtggcctc gaccagtgc gggcttggag gcattcccag tattgtgatt 2040
tcttgaagct gagacctccg cgagaggtta cgtttgaac gggccgtgaa ccaaacagag 2100
tcgcactctg gttctgaacg gttggcagtt ggat 2134

<210> 1834
<211> 9968
<212> DNA
<213> Aspergillus nidulans
<400> 1834

atctacagca acaccacgtg agtcgccggc cattggtgct gtgccgcgcg gcagtcgcaa 60
atgccaatcg taacgtaacg ccaatgccaa cgcatttgcc agcaacagct ccctgtatcg 120
ctcccagtcg caggccgaca tgacggggct ttccccgagc gtgcgcaaca tgaccacctc 180
gtcgcagtcg ctgctgggct tgccagcagg aacgagctat ggctcgttct cgggccaatt 240
ccagcccact agtacgtcaa atctgctgtc caggagtcca gactcgtcgc ggcagctgag 300
gagctcgtat gactctttgc agggagtcca gaggaatatg aatccagtga cgaattaccg 360
gcatacttca ctgaactcgc aaacgctgtc accgcatgcg caggggctga gtacatctcc 420
acagcagtcg ttggatcgga tgcagcagct tcagaggcaa tcgccacata cgcagtcgac 480
ttccgtccg tctaatagcct cgccgatgct ctcgattcc cagaaccagc aatatacgca 540
gtatcagcaa tcttcgccgt atcagacaca gtcgggtcaa tatcagcagc cagtgtctca 600
atatcagcaa ccccaaaaga cgcaaccaac tcagtaccaa cagccgcagc aatatcgaca 660
gccgcagcag gctcagtata cgccgcagac gcagagctct ccttacctgc ctcagacgca 720

gtaccctcag tatecttcgt cacagcagcc gccatatcag cagctacaga actaccaaca 780
 gcagcagaag tcggcccaag taccacaatc gagccagcag agctatccgc agcaaacgca 840
 aataccgcag acaagccaac aaaactatca acaagcgctc gctcagcgag caccgcagac 900
 gagcccggtc cagcagggat atcagcagaa ctgcagctcg gccagcaag cgccacagct 960
 gagtcaacag agttatgcac cacaagccca gaagtcagcg caaggaccgc aggcgagccc 1020
 ggtgaaacag agttaccagc agccggggcca gaaaccgtca cacgcaggcc aacagagcta 1080
 tcagcataca gcgcaaagtt cagctcagca acttccacag tcgagccaac agagctttct 1140
 gcttagttcc gccaggtac cacagtcgag tcaacagaag gggtatcagc aagcgtctac 1200
 tcagcaagta ccgcagtcta gtcagccgag ttatcctcag caagtaaata aaccagcgca 1260
 gctaccacag ttgagccagc aacagagtta cctgccggga ccgactcaag tgtcccaatc 1320
 aagccagcaa aaaagttatc agcaagcagg tcagcaagga ctgcaatcga gccaacagag 1380
 ctatccacag caggcgcaga catctgccca agcgcagtcg agcccgcatg tacaacagta 1440
 tcagcaacat gcgcagaaat cccatcatgt actacatcct caggcgcagc aagtgcagca 1500
 aaatcagaaa gccgctcgac cttctcaacc atctcaggct caggctaagc cttcaccatt 1560
 gcagtcgcag caagctcagc aagtgcaggt tcaagctaac cacacttctg catcaaatgc 1620
 ccaccagcg caagcaaatc ctgcagcctca acgggcgtct caacaggctc aggctcagca 1680
 accagctcaa tctcaaaaga cgtctcagca ggcgcagaat cagcaaacc tgccaaacca 1740
 ggcttaccag caattctatt ctgcagcatgc gcaacaagct cagcgttcac cgtaccagac 1800
 tcatatgcag aatcctcagt atccgtatac ataccagcct cagtttgctc aacagtacat 1860
 gcaatcgcca caattacgga cttcgcaggc aaccagcag cagtaccagt cacagcagtc 1920
 ccaaacctct caatctcagt ctccgcagca atcagtcatg cagaaacagc caacaaccca 1980
 attgcagcag gagcagcaac cgcggtcaca agcacaagcg caacctcaga aaccgcctgc 2040
 acagaccaat caattagctt caaaacctcc cgctaaagag ccaaagaaga agaaagctag 2100
 caagaaggag gccaaagcaga agcctgctgc gtctcaagct gtatctcaga ctgcgtccca 2160
 acctgcaccg caagccaggg catctcaaac tgctgcgtca caggcgccgc cacaggccaa 2220
 gggctctcaa gtcaccgcgc agtcctcagc ctctcagccg tacgcctccc agacttatgg 2280
 ttcccaagcg ccggcctatc aattccagc ccaagcatcc caaccatag caccacaagc 2340

acacactcag caaaatactt ttcaaactac tacctcccaa gcacatgctg cccaacaaa 2400
 ctctttccaa actaacacgt ctcaatcaca tggccaagct cattctttcc aagttcccgt 2460
 ttcacaaccg catgcctccc agatgaacac ctttcaggcc acgcctcaag caaattccct 2520
 gggagctcaa ggctcccaac ctacgcaa at cccttctcag cgtcaaccc aaccgaaagt 2580
 tgaatcgttg tctcaacaat ctcaaccgtc tcagcaagtc cagcctacaa ccaacgggaa 2640
 tggacaggct tcgggtacat ttatcacaga aaaccaacg cagaagaaga ccaaacctgg 2700
 agacccaat cacactccca gaaagcgagg ccgtccgagg aagcaaccg gcgaagcaac 2760
 aaagccgagg aaaccgaaga gaccagaaa tccggatggc actgttgact tatctgcagc 2820
 attgcctcca aatctagctg ccattccggg ggtgggtatt ccgttttcca tagctccgaa 2880
 tccgcccct gtcctccag cttctacggc gtccagcgca ccgcccggc ctgtaatcgg 2940
 actggatggc aatccgattc cgcagaagcg caagcgtgga cggcctcgta agtctgaggc 3000
 ggacgggacg cctcgtaaac cacggccacc gcgggatcca aaccggccga aagggactgg 3060
 gcggcctcgt gggcgacccc ggaaggtgga cgtgctggca aggaagaaac tagaagagga 3120
 gcaagcagca gccgcccgg ccgcccgtca tgctgcggat caaatagtc agcctggagc 3180
 cggccaacct gcagccactc aagcgccacc cagtcaagca caacatggc acatgcaagc 3240
 tgggcacgtc caagtcaaag tcaatcaaac tagtcaggga cagccaagca aaggacaagg 3300
 acaaatccac cagtggcagg tcaatcaggc caaccagagc cacgtcagcc aagcacaagc 3360
 caaccaagcg ccaacgaatc gcgcacaagt caccatcaa actagtcaag ggcaggccac 3420
 acaagggcag gcccaatggc agattagtca agggaaatct ggctcggggc gagagcaagt 3480
 cgtcaagga caatttgac aatctgtgca ggcaccgtct ggacagacca atcagtatgc 3540
 gcaagggact caccgggac atgcacacc ttgcgatggc catccatgc aagcgccgt 3600
 tcagcctcag tctcaaaatc aggtgccag acctcaaggc cagcagcaaa tgcagccca 3660
 gcagcacgct cggcacactc acgcgcagca agcgcagcca atgcagaatc agttgcgggg 3720
 gagcccatg caaagcatgc aagctagccc gatgcaatcc atgcaggcga gtccgctgca 3780
 gaaccagata ggccagagac aacctgtgca gcggcctcct gtgcagacat cgagtcaacg 3840
 acctcagtcg cacttgcaag ctcaaggtaa cgccaaaccg cagatgcagg tccagccaca 3900
 aaaagcgag cctcagatgc agaaccacat gcaggccaaa cccgttgtgc acgtcagac 3960

gaccaagact caggggcaga cccagcaggt acagcaggca cagcaagccc aggttcaaca 4020
 agcgccagcc cagggtcagc cgcagaaggc tcaggttcag cagctggctc agccattgca 4080
 gatgcagcga caggcgccgt cgccgatgca gacaccggcg cagcggcccc atcaaccgca 4140
 cctcttgggg catggccagt cgcagttgca tcacgcgcag gcacagcagg ggcagatcca 4200
 ggggcaagcc cagactcggc ctccgacttc gcaagctcag gcgcagacgc acaatctcgg 4260
 caaggcacac cctcacgctc aaccaactca acaagctcat tcacgtatc cactcactc 4320
 taccactcc tctcactcta cccactctc tcactccgcc caatccgccc aatccgcatc 4380
 gtaccgcac tcgcaccgt accaaccaca attccaggag cagataccgc agctgcacat 4440
 gcactgcag ctccaccacc tcaaccagca acatcctgtc tactcacaat tctcgcaaag 4500
 acaacagcag ccatcgatga cgctcaacc gcagaccggg cagaagcggc cgtcctcggc 4560
 gctggacgac gatccccgga aacgcgcgta tatcatgcca catcagctct agcagtcctt 4620
 tgtttgtgt tctgagatac catggcgcaa ctctctctga ttacggtctt ttccttggtg 4680
 cttggttgtt ttgcttgctt ctagccggat cttgtttgtt aatgcctaata cctgggcttc 4740
 atttctctg ttcggttgctc aggtcaggtc ttgcatttct atttatttac ataataatta 4800
 gcgctagcat tgacatatat aatcaacgct caataccagc tggccgtgaa aaggcccagc 4860
 tgcaacgttc tctgttcta gtctcgtag tagcagtgcc aaccgctcta aaccattcac 4920
 accttcttc cctctcatcc tttccagctc caatccctaa ttggtcccg tttccatcgc 4980
 cattctacc acactctcta tatccctca gacgccctt taccacttg ccaacctcat 5040
 caagtaagcc cagatcaaca cccgtttctc cccggttctc ctcaaacatc ttcacaaac 5100
 tcaccgtatc cacattcccc ctgcccccg gcgcaaacgg gcaccctccc agtccagcaa 5160
 cactccgctc aaagacctg accccaactt catacgccgc ccacacattc tccagtcctc 5220
 taccgccgt atcgtggaaa tggcacgcca acctgtccac gggaactccg ttctcaagaa 5280
 gatactcag taacgaggaa gtgagaccg gggacccga tccatctgtg tcaactcaacg 5340
 caatttcac agccccagac tcaagtaaga atctcgtaca gtgcagcaca gcagacggat 5400
 ccgttggttc acgcgtgatt gggtcagtga agatacagc tatatacccg cggactcgcg 5460
 ggattccggc tttttttgca gcgaccgtca cctcgcgggc tcgaagaagc ccgtcgtcaa 5520
 cagagcaatt gatgttgca tggctgaagg gcgcggtggc ggagatgaag acgcatatgg 5580

atcttatggg tggccggggt gagtgcgaga gcaggagga tagccctttg aggttgggca 5640
ggaggatggg aaggcagaag ccctctcgcg gctcaagttc cagttcaaat tcagtctcgg 5700
actcgaagct agactcgctt tgctggcttg actctgactc tgactctgag tctgactcag 5760
aagcagaggc tggcccgccg ccccgaggact gtgacagccg cctgacaacc cgatgtccaa 5820
gcacagccct ccaatccgcc aactgcgga ccacctttgg agacacgacc gaggcgatct 5880
cgatcgtctg tagaccggtg cctgctagcc ggcggatcag ggcgaccttg atctcagtgg 5940
ggatgaactc ggggatgttc tgcaggccgt cgcgcgggga gacttcgacg atatggacct 6000
gcggttcaat ttctatctca tcctcatttt tatgctcatt ttcattctca ttttccttcc 6060
gaagcccagt ctctggctct ggcttggact catggtagag gcgcataatg acttcgtaca 6120
atagagtggg atagccaggt tagcgggtga gcgggtagg gttagatacg atatatgtag 6180
ataatcagag gatactctgc ccctcagctc aagtcagagc tcaagtcagt aagcttacag 6240
tataatatag tacaattaga tctgatcgaa gtagcaaaga taagaggata agagggaaaa 6300
tagcccgcg gataatagtc cgcagtcagt ctgaatcggg ccgaggctga gcagtgcgg 6360
cgatgacgac atgtatggaa tgtatggagc gtatggagtg taagggtcat ggaaagcgcg 6420
agttcgagaa gccgggagaa gaacctctgc cggatcata cgtcgacgcg gattgtcctg 6480
gctatgacgg gcagtgcgag tgacctagct ggctcgtctaa agattggctg ccacattggc 6540
tgccactgcc atgggtactgt accggtacgg tattgttacc gttacaattg taccacacc 6600
gtatccatat cgtatggata ccatacgccg gttgtatgcg gaccgtattc gtctgtccgt 6660
ttttcgtacc taccgtacct ccggtgtcta cccttcgtat cttcatacct cccgtaaaaa 6720
tgcccgatct gtttgtctga cgtgagagtg aggctgcact acactacgct gcaactgggg 6780
ttgggctggc cggagaataa atacagcaat acagaagata taaaagaag gatcgaagaa 6840
ggacatactc tggcctgtat tattgtccta aaaacgctca ttgatcaatt gagcgcccg 6900
tgctgtaaa actggagcaa ccctgagaaa gtagggcttg ctagggtgc gggggagccc 6960
gtccccagc agccgggttcg tcctagagag gtttgagcac tcccttcag aggtaatcga 7020
ggtcagcaat tccgtcaatc aggtgcagat gcaggagaca gcaaatcaag gtcgctgcat 7080
tagatgagct agatgagtgt gcattgtctt gtgctgtctt gtgctcgga gggtcggaac 7140
tccgcacttc accatgacgg aacgccttct ctttcgagtt aatctcttaa tctatttctc 7200

cctaaacctt ggcacccaag cacgctttga gctgacttgg cctgttatca agctggactc 7260
cccaaccgat tccccgcttg cttggctgtg gggactgcag ctgacgagcc atgcaggctt 7320
ctgcgactgt tgttattatt atgactatga ttattattat ttaaaccatcg gcaatcccc 7380
cagttctctc caccctgttg cctacccaaa cgagtcctct gactagagat atctctagat 7440
atccaagcct tcagagacca tgcacggcct tgtecgccgc ctgctctgcg ggctggctgt 7500
cgcagcgcgc agctgcccag cgcgcgcacc atcgctgggc acgctgcaaa cgctcaagta 7560
caactacctg agcgcaccaga acaacggcac atcggcggtg ctggtccacg accagctcag 7620
caacgctgct gccagactc gctgcgctgc cattggggag tcgctctacc ccttcgcgtc 7680
tgcgcccgcc gccaacgcga ctgagctggc gcatcagttt gactacctgg tctatgcca 7740
ggacctgcgc cgcgaccaag acgtctgggt ggccggcgca gatgcaggaa aaggaggaaa 7800
aggaggagac tgccaggcgt attcgcccag ccagagagag gtcgtgtctg tcccctgcga 7860
ccgcccactg ccggcgctgt gcaactgcaa tgtgcccccg actcgggata tcgaccggac 7920
tgtcgtgccc tcgtccaagg tcaccgtttc gaccgcgggt tacacactga ccggcatacc 7980
gcgatgcgcg gtccttcggg ttctcggca tcccgttcgc cgacccccct gttggtgagc 8040
tgcgctctgc gcctcggcg gagtactctg gccctaaacg catcgacgcc accagactcg 8100
gcgctcatg tatccagtcg gtctctggct ttgcgcgctc cgcgacatct ccgaggactg 8160
cctgtacttg aacgtcttca cgccaatcgt gcccgagcgg cccggcatag tgcgcaagcc 8220
cgtcgcggtc tacttctacg gtggcgccct caccagcggg accgcgtcga tcatcgacta 8280
cgacggcggc aatttcgcca gtcgcaacga tctcgtcgtc gtcaccgtca attaccgtct 8340
cggcgcgctc ggctggctag ccacgggtaa cctgaccacc ggcagctacg gcacccgaga 8400
ccagatcctc gccctccgct ggggtgcaggc gaatatcgca gcttttggcg gcgacccag 8460
ccacgtcacc atctttggcc agtcggctgg cggccagagc gtcgtcgccc tgctctctc 8520
gaccgcccgc cgcggtctct tctcggcgcc cctcatccag tccgctctg tcgaccttcc 8580
ctggtacacc cggcaagtct acagtgaatt ggtcgtcccc cacgtcgcgc aagctgtggg 8640
ctgcggtaac gcgacgactg agtcgagtc tgcgtgctc cgctgcttgc gcagtctgcc 8700
ggcgacatcc ttctcgaca actcgacggc ctttgaagcc gccacatcgg caatcgcaac 8760
cgacgtcgcc gactcctacc tgcattgtct gcagctctc gcctcgattg aaccctttat 8820

gcccatggtc gacgactccg actcgggttc gggcgatc gacaaccaat tccaccgctt 8880
 ggtctcggaa aacactctcc ccaaccggt cccgaccttc ttcacgacga cgccggacga 8940
 agcagccctg tacgtgaacc ggctgggtgcc cgaactcgga tcggcgcaat ccggcctcaa 9000
 caccctgctc ggtcttgctt acccgcccc cctcgctctt gcgctcatca atgcaaccgc 9060
 attccctaca gacacaaagc agccagattc tgtccgtatc gagggcgctt ccgctcttac 9120
 ccacagtga tggctgtgtc ctctcgcgca cctcctccgg gtcgcccgtc cgggcacatt 9180
 tccgaccctg tacagcgcac agatcactga cgggcatgcy cagagcaacg gctcgacacc 9240
 ggatatttgc aagccgaacg ccatctacaa tgcgacctgc cactcaaacg atgttctgcc 9300
 ggcgtgggga acgctgaatt ccaagacgat tgacgtactg ccgtactacg ggctcgctga 9360
 cctgaaacac agtcagtttt tgaatgatat ctttgggttc tttttcaggt catatgaccc 9420
 gaatccggat cttgatatgc tccgtctgcy cgggagcgcy tatgaacata ccctcaatgt 9480
 attcggagcc ggttacaaga tcgatgagta tactcctgcc gaaaagaccg tgcctttgct 9540
 gggacgcctt cctggccgga cggccaatcc ggggggttac gagcagtgtg acgttttcga 9600
 ggcgtatggg tatacctttg agaacgcctt ctttacggag gcttgattca ctgaagaggg 9660
 aggttggttt ggtgttttag agtcgtaggg ggctggatat aatgaagtca tggatatatac 9720
 atatacggtc tgcgttagta gatatccaat aatgcataaa gagattaatt gataccactc 9780
 cgtgcaaagt gtgcaggaat ataggaccat attctgtata tttgttcata atctagcaga 9840
 atccatgttg agagtcaggg tcgttatcag tacctttgct gacttgatag ggaggagtag 9900
 aaagttttct tgtaggtccc agccagactt cgccatctca acaaggggat atttgcgcca 9960
 cttcaccc 9968

<210> 1835
 <211> 2092
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1835

ttaatcagtc tgggtgcagt ggtaacaccg gtagctttct gattggcggc ctattacggt 60
 ccaggaacga actatacaga aaggttcacg aatttacgat ctagccaagt aattgggtga 120
 tgttgatgtg actagaaatt cagatccagg gaaccgagtc ggagcgttgg aaaacaacga 180

cgctgcgcgg atatacaagg tatgtaaata cttacacact ttgtgcgtta gactatattc 240
 tagcacatcc atatttcggt taaatgctaa ccggcaaagt acccatacca agaaacaatg 300
 ctgcgaaatc aggtaccttc tatctagccg agccgtccgg ccagcgtttt gaatattgat 360
 ggatttgtcc agatgctcgg ttttgtcatc ttggggaacc cggaggacgc tgctccgcca 420
 aggccaagtg atcataccgt accggccccc agcaatgctg ttgcccctcg tgacagtga 480
 gatTTTTTggc ggataaacca ctgcatctgg gctaaactga aagttgggag agacggaaaa 540
 agcaatcagc tgcggctatt gatgttggat gaaggggtcg aaggctctag taaggctttt 600
 ggggtgctct agatggacat tttccgcggc ccgcggggca gctattccag ttaaaatgtt 660
 atctttggag cggagatgcg cctcgtgaa gcatgtgctt ggtcattgtc tatggtaatt 720
 gttgatctga aggtgtaggt tgagatagtg gctttgcttt tcgtacattc acggtatatc 780
 acctccggcg gggtagctgt accctgtgca gcatgtccc agaataacgc ccgccttaga 840
 gtagccgctg gtcattattgc cacgaaaatg gattaattgc taagccttac tcaggctgac 900
 tacggcttcc gctgaccaac aggacacaaa ggtcaggatc atctgttgag tgagtgtctc 960
 ctgttggtga ccggtgaaga ttgaacagca ccagttccag aagtgcccca ccgcgacatc 1020
 accgtcccca cctgccgttt cgatgctctc gagttcaacc cctccatcct ttttctgtac 1080
 agttccccc cccgtcttct ctttccatcc ttctcttctc ctctccctt ctttttccat 1140
 tgccctgctc ttgctccaat cccccctttt atttatatac ccagacaagg caggtttgat 1200
 tactagacag tacggtgttc taccatccg gcaactctga aagctctctg accgcggctt 1260
 tccccctca acagataccg caatcatggg ttacaccgag cttgatcaat tggccatcaa 1320
 caccatccg cttcttgcg tatgcctctt cctgaactcc ctcttctttt agttctgtgt 1380
 tttgtggtgc tcttcgtaat caccacgcgc cccctggagt ttgcggagaa tgaggtcacg 1440
 gaattgggag tcagacgctg ccgccgataa actcaatcca ttgagccctc atcgcgttat 1500
 tgtttgtaca ctgttcgctg cgattactcc gtcgccggga ccgagttgca cagtgtcatt 1560
 gataaaaagc gttggaatga cgttatacta acagcattcc aggttgatgc caccgcaaag 1620
 gcgaactccg gtcaccccg tgcccctatg ggcattggcc cggaggccca cgttctcttc 1680
 aacaagttca tgaagttcaa cccaagaac cccgaatggg ctaaccgtga ccgatttgtc 1740
 ctctcgatg aagcccatTT ctcttgcgag tacgatcttc gctaactgctc tcgctatagc 1800

aacggccacg gctgcatgct ccaatatgct ctctccacc ttttcggata cggcatctcc 1860
atggatgacc tcaaggcgtt ccggtgaagc aacaactcta ttcgtttctca tactgatcat 1920
tcaggccggt agttaattta tcaattctta tagcaactcg acagcattac tcctggtcac 1980
ccttgagggtt acaacacaac ccgatttgag gtgaccactt gttcccctcg ggcaggggtt 2040
atcccaacgc tgttggctct gccttttgcc caagctaaca gtgggtgtgt ct 2092

<210> 1836
<211> 2523
<212> DNA
<213> *Aspergillus nidulans*
<400> 1836

cgcatcaga agtgcacga gacttttggc cgacacaaca ccgacaagac gttgcccccg 60
aagcctgcgg ctgtcccgcc agagggagcg accgttcac tgcaaaagac tccccgagtc 120
ggccccgaca ccggctctcc cgaagtgcag gtcgcaatcc ttaccgcaa gattctgaat 180
ttgtctagac acttggaac tactaacaaa gacaagcaca acaagcgcaa cttacggctt 240
ctcgttcaca agcgacagaa gctactccga tatttgcgaa agaaggaaag ggggtgtcca 300
aggtggaaga atcttatgga tacgctcggg ttgtcagacg cttcgtggaa aggcgagatt 360
agcatgtaat ggttcaagcg tttgtacatt agttgtttct gaatctctct ccaacaaagc 420
gttggttgtt aactttacga tatttgacct ctggcgtgtt aggtctttcg acgctgcttc 480
tccgtctttc ttgtatagat acaatttcaa tcaactgccg tcaactgagg tatgttacgt 540
gtttcttggg gaagctacgt ggccagcaat atagacttcg aaggtatttc tgtagctagc 600
tgagtctgag gtgctgcttc atctaagttt atcgtcctca ccctaaatcc atgccaggca 660
gttaaagcta attttgacct gcaccgaaca atactgttcc agcctcgtct tccaatgcag 720
gcagttggct agggcgtgat agcgcttaca gaactaccaa cctcctgata tgaatcatat 780
ctaggttcat tccctaataa caagacagg caagaaagct acgtctatct ctttctacac 840
gtaaactgag ccaattgggt tgctgccagc ctatcgcccc gtcttattcg tatgctgcca 900
tgagtggacc tccgtataat tcactctcag agccagcaat acgtctgatt tcctcttggg 960
agcccacaat ggtgatgtta gctgaaccgc aacgttcaaa atgagaagtt aggaacaaga 1020
gtgatcgact aatgctgtga ctggacactg atggagggcc tctccaggaa tctaaaccgg 1080

gcttaatcga tgagcatcct tatttcaa at taacacataa gatgatgata aggtcctttt 1140
ccttacggac gaactacttt gcactgacag cctatgaatc taccgaatgt tttatgaagg 1200
gtggagccgg ggccaaaaca gatcataaag tgcagtactg accgctttct gggtttgggt 1260
tctgccggca tgtcacttgt tcttggcacc tccttcccca agttaatttt ccctcacaac 1320
ttaatttccg caacctcatc tcactgtctt tctaactctt caacatctca tcctaccgaa 1380
ggtagagtaa cttttgctag caccagcagt ctatgtcgca accatagaag attgtatcag 1440
gacctttgag gagtctttgt gtctaaaaat tcttctctca ttctatatct tccgcacgcy 1500
ctccccgatc ttcaggctcc aaatctgcca agcaaactct tcaatgtaca tttccccttc 1560
ttagctaaag ctcttgaatc gcaagtcgga cctcgtttta tcacagttac tcttcattga 1620
ctttctctgt cgcgatattt cacgaagtcc ttgtctaate gcgcaaacac aaatatacag 1680
tcagaatgcy taccggttct cagccagatt cacctgggtg cttcgtctcc ctcgatgaca 1740
ataaacgcy tactcgtcgt actaccagat caacgaggtc tgcttccaga gctgtttccc 1800
aggaacctac ttctgaacag cctgccgagc ctacaacaca accagcgact cggtaaaaaa 1860
cccaggcagc cactaccaag aagaccacta cgaaaaaagc cacctcgact acatcaactg 1920
caaagcctca aactcgcaaa ggtgcgaggc gtggaacgcy aagtgccact cgaagggcgg 1980
acacaatgcy accgaagaag tgcaagagag tgttgaaaag aacactcatg aactgtgcy 2040
aacggataat aaggaaaatg ttgatgtcaa cactggagac cttgagtctc gccacttgc 2100
gtcggattcy gctttaatgg aacctaaaga ttcagagcgt gaggaccaca cctatcattg 2160
tttgtcagct ttttatgtca togtaaattt ctttcccctc ttctttcatc tcccttttac 2220
tctcaaagga gtcacaggaa tccagagatt cccagtccca aaatgtccga gtgctgcagg 2280
atgccgaagg accacaggtg tacgcggata tcaagttgac cgtgaaccga tatatgccga 2340
cttctccgcy ccggtcatca agggtcagat cgatagacca tttggtacc caagcccaa 2400
gggacttacc ggtcttcgtc aagtacttcg cttaatccca tcccgaagg agatgacttt 2460
gaccatcctg cgagcgccaa tattggacta aacaaatatt gccctctcag gccaccctat 2520
ctc 2523

<210> 1837
<211> 3464
<212> DNA

<213> Aspergillus nidulans

<400> 1837

agcgcgccca aaatcagctg ttctcgcatc tgccgggaag tttgaagatc caaaaagtca 60
cattcggaac tcttcctcta tatctcacac ctcgctagca ccattcggcc ggaatgcgaa 120
ccgccaaagg tcgaattctc tgagaaacga tgtcacgtcc ggtacatttg cgccggagtt 180
catcaaatca gaggatctcc gccacggcgc tgaccagatt cgtggacaag aaggggacaa 240
tgacttctcg ggaaataaat acgtctgggt acgtgatccc gagaaggcct ttgtcaaagg 300
gttagtttta gaagagcaag atggagctcg attactggta cagacggatg atgggcaggt 360
atgagcaacc ggtgctaagg tcatccgcat acttacaatc tgcaagcaac gagaagtgga 420
cgtcgaccaa gttgatagag tcaatccggc aaagtctgac aaggcagatg atatggctga 480
gcttacacat ttgaacgaag cgtccgtggt gcataacctc cacactcgat atctggcaga 540
tttgatttat gtaaggcttt atctttcttc cgcttggtgc caaagcctga ttgacaatac 600
gttactagac ctactcaggg ctgtttttgg tgacagtcaa cccttactgt ccctgccta 660
tctattccaa tgagtacatt aatatgtaca agggacaaag tcgcgaggag actcggccgc 720
atattttcgc catggccgat gaagcattta ggaatcttgt ggaagagggc gagaatcaga 780
gtatccttgt gacgtgagtc tttgcgacgc atccgtgtaa atgcaaattc tgacgcccgc 840
acagaggaga gtctggggca ggcaagacag ataacaccaa aaaagttatc cagtaccttg 900
cagccgttgc aacatcagat aatatgtact ctgctcagg aagcaagcag atgaacaccc 960
tttcgcagca gatTTtgagg gcgaaccga tctcagaggc atttggtaat tcgcagactg 1020
tcagaaacaa caactcatct cggttcggca agttcatcag aattgagttt tctcgatcag 1080
ggcagatttc aggtgcttcg atcgattggt atcttttggg gaaatcccgc gtggtgaaac 1140
ccaatttgca ggagagaaac taccacattt ttaccaact actcaggggt gccgagccta 1200
aactaaagca aaagctgctt ctgtcgaact tacagatcga ggacttcgct tacaccagag 1260
aagggaacga tacaattgct ggagtttctg acgaaaaaga atgggactcg ttgctcgagg 1320
ctttccatat catgaatttc tcggaagagg atcaaagtgt catccttcgc acagttgcag 1380
ctgtcctcca tctaggaaac attaccatcg tgaaagaaag tctacgggct gatcaagccg 1440
cccttagtcg agacgccctt gatagtgttc ataaagcatg ccagcttttg ggaattgaga 1500

ctgagccctt tgtcaagggc ttattacatc ccaaggtaaa ggcaggccgc gagtgggtag 1560
 agaaggtaca gactccggag caggttcggc tggcattaga tgcttttagca aagggtatct 1620
 acgaaagagg ttttggtgac cttgtcaacc gcatcaacag ccgactggaa cgaaacactg 1680
 tcacgggtga agacagctac ttcatcggtg tacttgatat cgctggtttt gagatcttcc 1740
 aaaacaacag ctttgaacaa ctctgcatca actacacaaa cgaaaagctg cagcagttct 1800
 tcaaccacca tatgtttgtc ttggagcagg aggaatacgc gcgggaacaa attgaatggc 1860
 agttcatcga ctttggcaaa gatttgcagc caacaattga cctcatcgaa gtcacaaacc 1920
 ctatcggtat tttttcttgc ctggatgagg actgcgtcat gcccaaagcc acggataaat 1980
 cgttcaccga gaagcttcat tcgctatggg acaccaagtc caccaagtat cgcgcctctc 2040
 gcctccgaca aggctttatc ctacccact atgcagccga ggtggagtat tccactgacg 2100
 gttggttga aaagaataaa gacccttga acgataacat aaccagactg ctgcgcatcct 2160
 cgcaagataa tcatattgca gctctgtttt cagactgtgg aaacgcagat gaggttgacc 2220
 atcccagaag tcgcgtgaag aaaggcttgt ttcgcacagt ggcccaaaga cataaggaac 2280
 agttgtcaag tctcatgaat cagcttcact caactaccc tcattttgtt cggtgcatta 2340
 tcccgaacca caaaaaacgc ccgaagatgt tgaatgcccc cttggttctt gaccaattac 2400
 gctgcaatgg tgtcctggaa ggtattagaa ttgcgcgtac cgggttcccc aaccgattgt 2460
 cttttaatga attccgcaa cggtatgagg ttctttgccg ggatatgcc aaaagctata 2520
 tggatggaca gtctgccgcc cggataatgc tgcagaagct ggctctagat aaagcgtgg 2580
 ttagagtcgg ccgcaccaa gtgtttttcc gagctggcgt cctcgcagag ttggaggaaa 2640
 aacgtgacga gtcatecgt acaatcatga cacgattcca gtctgtagcg aggggttttg 2700
 ttcagcgag gatctcaaac aaaaggctgt atcgtgcaga agcaaccat atcatccagc 2760
 acaacttccg agcctatttg gagatgaagg ccaaccctg gtggcgtttg ttctcgagaa 2820
 tgaaaccgct tcttggggag acacgtactg ctcaagaagt gaagagaaga gatgaaaaga 2880
 tcaaacaact cgagacgaaa atgaagcagg accaatccga acgccagaaa gttgaggaag 2940
 aaagacggcg agcggagata gagatacaac gaatccagca gaccctggag agcgaacggg 3000
 cattggcct tgacaaagaa gaaatcttca aaaggctgca agatcgcgag gtagagctca 3060
 gcgagaaact agcaggcgct attgccgacc aagaaaacct cgaagatcaa ctagacgaac 3120

taatccttgc gaaaaagaag acggacgaag agctcgacct gcgaaaaaca caactcgagc 3180
 aggccggaga gattatccag cgcctagagg ctgagaggaa ggagatgcag cagaagttgg 3240
 aggatctgga gcagaagctg cttgaggcac agagcagtgc ctcagagacg gaaaaccata 3300
 tgaggagct tggacaagag gtcaaatgc tgcaaagtca tctcagtctg aaggagcgga 3360
 aactgcagga tttggaggca aaactgctga agaccgacca agatctggat gtcaagctgg 3420
 caaaaacatc aaaggaattg gaccgatcga agaaagaagt caag 3464

<210> 1838
 <211> 1993
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1838

ggtgccgcgg gagaggtaag gccgttgccg gatgtagaag atgtcttcaa agcgaggctt 60
 cttcacgcgg ccgccgtaga cgggccagag cgcctagaat tcggaaaaga gaggatttgc 120
 cgcagccgtt agggccgaca atgaggaggt ggtcgccctgg gtggacggta aatgtgagtt 180
 tgcaacaag gacgtcacca ttgggggaaa cgatggggac atcgggtgaat tcgattgcgt 240
 cgctttcttc aacgatgccg cggccggaga gtacggcagc gttttcttct gttgaggcgg 300
 aggacacaag tttcttttctg aagcgtccgg ctaggaggtc gtccatcaca tcaagcaggg 360
 atgatacacg ggctgtgaaa cctgctagct cggagatttc cttgtaggag aacattagac 420
 ggccgaaggc gtctgatgag gagagtaaca ttcgtctatt agtgacaaaa cctgtttcac 480
 gcattagttc ctattcgagt acggttattc aaccgaaaag caataaggtc tcactttctg 540
 tacggtcacc cattgtctgg gtgacttgat cagagattct aaagaaaacc gggacactgc 600
 acagaatcaa acccagagcg cccagaagt acttgataac gaaatcctcc ataaatccgt 660
 ggtataggcg cctacgcagg attcgattca catgcttaat gagggtgaaa tagcccttgt 720
 ccaagggtgc cttctcagct tcgtggccat gatatagagc aatttcttca cagtagtcga 780
 ttaacctcga atggagaaat ctgaactcgc cttccaggcg agcttcgctg gcaacgtatt 840
 taccgaacgg cggcgtcaat gcgcgcata cgttggcaga tagttgaacc aagagactca 900
 taataaagag accttcacct ccaacactct tcgaaagcga gtaattgtag atcatcatgt 960
 caagtattgg cttggccaga ttagagtaaa gttccgcaa gctatcagag aatcgggata 1020

cgtccactgt aatgagttga tcaggggttct tgactcggtc gtccaaggcc gatatcgcat 1080
 agaaggatcat gtttgatagg tatttgctgt gaatgtgatc ggtaaggcgc ttgcggtagc 1140
 tgagtgaag cttgcactga tgataagaca actatttcgg ggggaaacat gttagctacg 1200
 ttctgttccg acagcaatta gtttaaccct gaatgtgcat gatgctcacc atagagtttg 1260
 tgaacgtcgc aggcaccgca acaatcatcc accacaccag tcccagcaga aagtcctttc 1320
 ctttctctcg caccagattg ctgacaagcc gaccgtttag ctcagcaacg tacagactga 1380
 ggagcgtccg cagcaccaaa aagacactat ggcttatcaa caagcgtaac tctttactcc 1440
 gccagcccgg tatcacgatc ttgagcagac gtgccaagtt ccggaagaat tcacgattaa 1500
 cgcccacctt cttccgtggg ttgtcgccgc catcgccgag actgctgggt cctgggtttc 1560
 tccgcagatc cacctgacgc tgaaacgccg ctttttgctc cgatatagca ttatgaatac 1620
 gctttgcgag ggcagcaaat agcgcgagat agactgcgcg agaaatattt gtgcgggtggc 1680
 ggaggtacaa tgatgccagg ctggagagaa tctgtcggac ggaacgttcc ctaggagatt 1740
 tcgactgagc agccatagtg acggaaatgg ccactcacgc aaggataaaa atgactttat 1800
 ccggaatcaa cgtaaggcaa catgaccagc ggcgatactt ctttgaggaa agtgatgata 1860
 ttgttgatg ttgcttgaag aatgggtgaga tagctgaagt gcccacatgca tgtgaacgcg 1920
 gccaaaacac tccgcaaaac tggggatgga gccgaggtcg ggccagggtc gagttcgccc 1980
 atatatcacc cac 1993

<210> 1839
 <211> 3638
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1839

ccggtatcat cgcgcttcat attcctatgg tgtggactgg attccaaaaa atgtcatgct 60
 caaaatcggg taggctgctg agaaggagggt gtatttatcc gacgtttctt atgaattgat 120
 taaattctgc tggcatgaga agacaagcaa tgatatccat gggccgttta tggaggatgt 180
 ttaggtggaa gaagagcagg ggcgccgcat ttgcttccca gctcctggta ttaatggaac 240
 tcctaataata ccagggtacag ggtcagcgcg gcaattggaa attttctgaa ggatgatggc 300
 ctaggcacgc ctggccggat atgtgagact tgtatcaaag acacaggcaa gaggaaggat 360

attcccaagt ctgttgccat cgccaaacaa attgaccacc ctcagaagtc ttttctcggt 420
 cagccacagc ctagcggcac taagccggtg ggcagagggc tcataaaaca gcggtacctt 480
 aggttcctgt taagaagcag tatttaagag cccgaacaac aagtgtcaag tatcagttgt 540
 acttcatcat cgttactcat aacgaaaagc gattttcgat gccaacgaca atgcaatgcg 600
 tgggcggtca tggagctcac gggcagatgg gcccaagtca atgatggatg cacttcaacg 660
 gatctggcgc tacctgacta ttaactacga ttacaactac agcccttggt gcctgcttac 720
 aggcagcttc tgcttaatga gcacgccag cccaatgct atgatgggtg tcactttgca 780
 tcaagaattc aaattgaacc cgttggtgtg ataaagaggt atgataagca tctagagcat 840
 cgagacgacg tcacagctga tcgaattaga agtaaaggaa atactacca tgcccaaac 900
 aaagttaaca tcgcttctgg aggaaacggc taaggagtac gagggcaagg cttgtattgc 960
 ccacaccaag aaacaaaagc ttggtccctg tagctcccg gtatggagat ataaagtga 1020
 tttaacggat gtaaagccta tgtccaacga tagagcagta gtgcttttgc gcatatcggt 1080
 agttcgtatt tcattttgta taggagcgat aaatatatat tctgcaggct gagatttatg 1140
 tacttgatgt gccgttcata taaccacagt atattacacc atgtaggctc caggaacgag 1200
 cttctaattg gtcaagtcag aataccatag ccccgcgccg tgtctttatc acaatcgccc 1260
 cgctctggtt ttctgttctc aattccagga caattacagc cagattctcc tcagactttg 1320
 tattgacagt aagtaccggc cctatttctc gatcctctgc agctgttcaa aatatattct 1380
 atcaagtcat aatactacaa ttggctcgca gagaattctg gaattcgaga tgtgcttcca 1440
 ctgggtcccc gcacctcaca actgccatat cattccatct gtttccatta ctctttcctg 1500
 tattctaca aactgaccgc ggtccagaaa tctcttaga tcctatacat ctgggctcta 1560
 gtcgtacggt tggtgctaata tctgccccat ctaatccgcc ctctcgaatc tccgaacctc 1620
 cgccctacgc gtccgtctga gagtcggcaa cgatacctga taaacataca acatgtcctt 1680
 ccaaccaaca ccgactgaca tccccgtcgc aattacaacc ccatttacat cttccccctc 1740
 cgacgaaccc cgctgcatt cagaacgccg cataactcca acatggaccg tccagcaggt 1800
 caaggcaaag ttggagacca tgactggcat accaccaagc agccaaaagc tccgtctcaa 1860
 gacacccggc cgtgcagaac attgggttga tggcgatgac acaataattg gggagtgggg 1920
 gttgacgcgg ggatgtgaga ttgaggtaga gttcatcaaa agaacaagaa aggtgatttg 1980

gtattaactg atgcctggat aggtccatga tacacggccc caagcggcac gagtgaattt 2040
 caccgacctc tcatccgtgg agaagtacgt ccttccaaca gagacatacg aaagcctgcc 2100
 gaattcggtc cttgcgtgga agaagagcca gaagctgggg cggtttgatc cgaacgcgct 2160
 ttcgccagtt gaagcgatgg ctgagcaagc gaggaaggat aaggaggagg tcgagaaacg 2220
 tggttaagtat cttttgttcg cttatcacca aacctgtgtg gtgaacgatg agaatctggt 2280
 ggatggcggg tgctgttaat gacactctgc agacatctcc gtttcaaaac gagcaatcat 2340
 tctcccttct tcaccacccc atgtccgccc tggcacgata cgcttcggtg gccccgtccc 2400
 ggcaatccca gttcccggtg ttgacataga gaccgtggac accccagcac tgcccatctg 2460
 ggtcgggatt gaactcgacg agccaacagg gaagaacgac gggagtgtca atgggaaacg 2520
 gtactttatg tgcccaaata ggtgcggagt ctttgtgaaa ccggagaagg tgcaggtggg 2580
 ggattttccg ccgcttgggc tggatgatga gttggacgag gacatggagg agatctaaac 2640
 tagagcaaaa ttgggggtatt atataaaagt atgctaatac actcaaagt cggttgagcc 2700
 cggtgttctt cgcttctggct caaagagaaa tggttgaaa gtaataaaat tgatagatgg 2760
 atacaacaac accgtaccag ggtaacatga gggcatcgct aaaacaaaa cagtcggaac 2820
 agtgcgaag ctacaccaac aagatgagaa acgttggaat ttggtaacgt aacggtatgc 2880
 aaaaagggtga gttgtaaagt cgctggaacc ggatcgggat aatagaacac ttaaggtgat 2940
 gttgcctttt caactcaagc agcgggcttc tgcttccctt taggcctgcc tttaccggct 3000
 gtagccttct gtggcctgga acgtgctgga ggggtgtttg attcgccgct aagcgcacgc 3060
 gtttttagacg cagaaccagg agcatcatct ccctccgccc tgctagggac acagccctgg 3120
 gtgaagaaca atcgagcatt tttgttgtat gtgtttgcga agctatagta gttacctatt 3180
 atgggtaagc ggtgcaaaat gagtggatg ggttgcgatt gtctaatact gaccacgggg 3240
 aacctgaaag acgcatccct tgccagcact aaattggacg cctgagatgt ccactagaac 3300
 tcgcccgttg acaacgtaga atatcatatg cattttcttc gcgttctttg gcttcttgac 3360
 tccgccgggg ggtagttcaa cgatgcctga gccgatgaat ggtgaactca gaagcttggc 3420
 gaacctgaat gatgcgccct tgacatctcg agtctcgata ccagacgggg cgtacgcgat 3480
 atctgtacgg cgtcagggtt gtcgattatt gatgaagggt tgggtgacat acctaaaact 3540
 tctctctcgt ctagagctgt ctgtgtctca ttgtccatt ttctgatata accatgtaaa 3600

acgcctccct tctcctcgta aggatctcgg tattggtc

3638

<210> 1840

<211> 2432

<212> DNA

<213> *Aspergillus nidulans*

<400> 1840

caatactcca taatctcgtg aaaaagggtct tcatgcacca agggctagac atctccttgc 60

gccaaataat gttctatttt attttagatc gcaccagtgt actaaactat cttgtcattc 120

taccaggaat tatatcatgt aagcaaggat ccatcgcaac tcacttttcg gctaggccga 180

agctccaata gctggaagta cttttttttt acaatactcc tcaataagat catctagaac 240

attgcaaact tccatcagca atcagcaact ccatagcctg tccagcaaag ttagggctag 300

gctacagcat tctcctccta gctactcaac cctcgaaaat accactccgt cccccgtcat 360

ggacaatctc gacgactctg gatgcgattc ttggattttg ctgatatggg ggcaagttcc 420

tgttagaggg aaggcttgac atctgcctca gagccacccc gtatgataga gtcaggaagg 480

gccctcttca agatttagag gagctggatc tacgaaaatt ataacattct ttcgtccctt 540

ttgaagtcgg tgatagcgat cccttagaac ctgattcaga gaagtgcctc gttgaatact 600

gaacggcgca agctagggaa aagatgtcca aggtggtacg gagtgcgagg tctactcgaa 660

ggatgaaggc agagtgcggc catgatgcca agctcacact tctttatgtc gtggcagact 720

ttctgcactt gagcagcggc tgtcatccct tgtctgcggc caattcctcg gtcctaaat 780

cccataaatc tggccctctt gactaccaga tatcccagtg ggccagtgtt cgacacgaga 840

cgccgttcag gcacaatccg aagctgcctc tagagtagag ggaagataga ttagacagag 900

aacaagttcc tgtgtcataa ggatctccca ttctctccag gatgtcaaac atccatggat 960

aatccagttc cttgagcact cagtgtcctc ttctccaagc tcagcaagct cttgagaaga 1020

ccgtgaacat cgccattgag tatcaaagc cgccacagca gcagtcctaa atgcctatca 1080

acgaaccttg caggcctcca cgcgtcttag tatggtttct cgagataccg ggccgatcct 1140

cttggtgggc gggacacagc tgaccgggca tgtagaatct agaaaccggc caagatttaa 1200

gctgatcaaa gcatcatata taaaatcgaa gcttcccatg cctatttcat acgcctggca 1260

ttagcgggtg acggtctcag acgttcgact ttagttcac gttatcgaga ggagacgagt 1320

3275

aatatagtg acgtccgtaa agagcccata gcgacagggt tgctgtaaaa tatgattaat 1380
tgccacacga aaccaaagct ctagagatga tggattggct gacgggctat tcgcttgagc 1440
gtagattatg agatggcatt tggtagtgga ttgagggtaa tgtggagggt cgagtgtcaa 1500
gtgtcaggct cgagtattgt gccaaagctcc acagcccag cttgatctgc tggagcttct 1560
ccaacttgct cctgactgc tttttgttta atgctcagtc cacgatgtcg acgacgagat 1620
tgcctaacat cccgtctctt cgcaaatacc aactgatcca ggagcagtaa gttttggctg 1680
cagaatcaag ataaaatagt atctcattgt tatcagtga agcctgaaac atgcagctcc 1740
ccctgggggc tatgtcagcc tcagtcctgg tgaccctct ctctggctct gcgtgatctt 1800
cgtccgctcc ggtaagctac acttattgag attgaagatg cctctaata tctcgtttgc 1860
aggcccttac gttccgcca tcctccgatt ccggatacgc tccccccgt cctatcctga 1920
tcgcccaccg ctctgacat tcgctacgga cgtcttccat cccctcattg taccctcac 1980
cacatatact ttcagcactg gcgtatcaaa tgaagaccct gtcagcgcaa cgatgaaga 2040
gcggttgccc ccgggaggct tcagtcctag acacgcattt cccattgggt ttggaagggg 2100
gagacatgct ccctcatcga ggactgtgag tctcaatggc tcgaataaag ggggtgcaga 2160
ggtaaacctc caciaagatc ctacgcaaga gacttcagcg ccaaaccag atgagagcga 2220
gggcggggaa caagacgaca aagaagggga aggagaagaa cggacatctg ttgatattgc 2280
tccagcagaa gtcacaaaaa tgaggatata agtcccgggt ctagagattc tagattacat 2340
ccgaacttcg ttcgatgatg aggtgtcct tgattctgtg ccgctcgagg ctgctgggaa 2400
ccaagtgcac ggcacgcacg gagagctcac cg 2432

<210> 1841
<211> 4627
<212> DNA
<213> Aspergillus nidulans
<400> 1841

attaggaact catcctgctg gagtttcacc ctgccctata tcattcttggc atacaaaaca 60
cccgttttta ctaccgggt tccatgggca gaatcttgac cgtgcttgct cgaactctaa 120
ggacgcagtc aaggcgaggc acagatggaa gagttgcaaa cgccggcctc ataaatggca 180
tacaaatgct gaatcttgta tcttgaacaa aaataataga atctctatat gacggcatct 240

tttctttctg gttacgtaga ttgtttatat accgcacagc agtagctctc cccgttcctt 300
 cttcctcctc acatggagct aagcactgac aagtcgacga atcgatgtat gtgttttggg 360
 accggagagt acaccgctta gaagaatgcc gtatactcaa cggtaaggat aaagcggaac 420
 ggaagccaga actaggacta tgtagtcgcg tccgcctggt tacagcgatg gccgcccga 480
 agcaggagtt ttttcctcaa aggagcctgc gtaactgtaa cagtggcttc atctcaaagg 540
 gagacgacgc tgatgaggcc gatgcggaca tattgcaggc aagccgttcg acgatgcagt 600
 ctcttgcgaa acgtgcgaat tcgtcttgct gtagtagacg cggtaggcata cagtagctgg 660
 gctgtgtctg cctcatgaat gcatctacac aagattgtgc acagcctcat tctgcgttca 720
 ggaagactcc tgtctcttca gtaagaaaag acgtgatgtg gagtatgtca gcgccacgct 780
 tcattcctcg acctcgact ctcccatctc aaccttaaag tattcagcga cctgagtctt 840
 ttcagcagcc gcgtattcag aatcgacaat aaaccgcact gctgcgtccc ggcctttttc 900
 tcctggcttt gggcgctctc cggtggcagt aactggaatg agagggtgat gaagagcccc 960
 agtcgtcggg gtcctttttt ccgtctttga gctgttggtt gctggctcct tgcgcgagtc 1020
 ctttgtgagt ttgtcttcat caatcgagtt ggtgtaccgc gggagattct gttcttctgc 1080
 ctctttgttc aatggaatgc gtacggtgag gaagcggta cggggaaaat gagggccgac 1140
 ggtcgtagca ctgcggttgt gtgtgtatag ctcgaggagg tcaagtagag tttctaaatc 1200
 cattagcct ctgatggctt ctttgtggct tcgacgtacc cataacctcc tcccggcttg 1260
 ttctccatct cgcgtagtct gtcccaagct caacctcctt gattcgttgt tccagtaagc 1320
 gtccggcgag ctccaggcag ctgaaagcca tcgtagatgt cgtctgcttg agcggcgcaa 1380
 aggtgcgata gaggtcttgc gagatgcggg aggctacgtt cgagacttct gattgaggtg 1440
 taagtctata ctgtcttgcc agctttatga gagttttttg tggatgccgc gttcgaaaat 1500
 cgaaaccgga actctcgagc atgagtctct cgaggccgat gatgcctcgg gcgggttcgt 1560
 cgagtatcta ttagaccgga tgtcagcatt cagtcgcaag gcattgttgg aacaagcacc 1620
 atacctgatt atctgaagag atgtgttctg attgcggtaa cttgagatta tacgccgcgc 1680
 atagaatctc acgcgacttt ttgagcgtgt cttcgatctt gcaggccata aacagggcag 1740
 ccgcggcagc atccttaacc gttagactcg gtcaacaaaa cgagaatgtc agaaacctta 1800
 ccatattatt gtagtccgtg tcgtggtgta tcagccggaa cttgtgataa tataccactg 1860

cagtattgaa tgttcgaatc ggcctatctc attagcaagc aactttcaca gttaatggag 1920
tgatccacat acagattcag cgcccgacga acattatcga tccaggtcac gccctgcaga 1980
cgtagagact cctcacgcag aggattgacg cccattgcgg ccaggcattg ctggatggtc 2040
tgctcgaaga tatacggctt tgctacctgg atgaaggacg ggtgaattgg cggaggatca 2100
ggcagggcca cgtcggagcc gggagcagtc ctcgagtctc gctgctgttc aggagccatt 2160
ctggagccga gcttgaataa ttccctccaga aagggtccgc ttgatgattt gcggactgcg 2220
ggattgctat ctggaacatc aagcagctgc tgccacgtga cggtgaaacg tttttccgag 2280
ccggctatac tagcaatagg tgagcgagaa ctaatagatg agatggtgat ctagatatga 2340
aaagatgtaa tttgtatttg cttaatctcg taaattatgt ataaataggat gatggtggaa 2400
tattatcacc acaggctcag gggaactata tacttcgctc agccatactt cttgagcagc 2460
ctctccatga ttgatacagc accagatcga tatccagacc caaagatcgc atggtgatta 2520
agatggtgat acctatggat gttaggctgg aagcaagtgg gaggtcaagg caacttacag 2580
ttcatacagc ctgaccgat cctcatactc ctcaaccggc tctgtcttcg gcacgatctt 2640
atgatactca ttgaagaaaag ccgacccgaa tcccccaaac atcttcatga tccccaaactc 2700
atactcactg tgcgcataac aagccgacgg gtcgtagacc acatcaccaa ccacctcgtc 2760
ctctttccgc ccaactcccta caatgcggcc gcggctggca ttcccaactcc agagatcccc 2820
atggacaaca acaggagtaa ttccctgccc ttttccagac gtatcgtacc cgagatgtcc 2880
atcccccaaa agcgcgggga caacaatgtc tgctgtcttc tcaactaaac tcttcaatcc 2940
ataatctttc ccatttcgct tttcggacgt cgccaagatt gtcaagagcc gtcattttgc 3000
ataaaattcc gccacgact cacacgatcg attcggctgt tttgtgtccc cgcaaacgt 3060
cggcacgggg aatccaaaca gccgctttcc cgtcttcggg tcaatcgggg cgggcgtcga 3120
atggagcttt ccagcctct gtgcaagaga tggaccacca tgaccagcag ctcgagatc 3180
gaggaactca gtcgcgagga agtagctctt tccaggcttg ccgccctctt caagagggcc 3240
ccaagctatg gcgcggggac agaaacccgg cacggcggac gagatagcgt tcagggatc 3300
gtattcgctt agaaacatct ccttcgcggc ttccgcgtcg gcagaagtct tgacgaagta 3360
cttgcgctct tcattctggc cgtctgtgcc tgggacggtc gctctgacta cgctgtgct 3420
ggtgaagccg gagcctaggc cggctgtgct gagtgtagct ttggaggggt tgggaatgga 3480

tagggcgcgg agaattgagg ctggtacttc ggacattatg atagtataag atttggtcgt 3540
agtagcataa atttcgagag tgtgagatgg atatggagaa ctaacgactc agggtagctg 3600
aatgatggtg tggtcctatg acgttatttt aaactcttat cgataaggta tttctatggt 3660
tgtggcctgc tgaatagtgc caataggaaa gttacggcct aaaagtatat caaatacaag 3720
cacagtgatg gagtccaaga tattttgtac accataagtg gttcatttcc agcatcaaac 3780
ccggcaccaa ccaggcagag acaaggaatg ggctaattta caagcaacgc taagagtgtg 3840
tcaacgagtt taccaagtgc agtgccgtct tcgttcgctc gcgaacgtca aggtccgggt 3900
catgttcaag gctagccagt cgatctagta cccaattga acgtagctcg agtgcgcggt 3960
tccggcaacc ctctcgatcg tgaacatcat cctcatatgt gaggttaatt accaccaca 4020
cgcaattggc acggacgtct cgggtggctgt ggttaaagta acccatcaa taacgaatga 4080
gatcgcggtg tgagactatg agctgccggt accatggaag gcttgacgag aggtggatga 4140
taacgaacgt tactgcgacc aaaatctcag tggggacctg aagcgcgca tggtttgggg 4200
actctcgccg atgaggcagc tggatagacc ttgggcgag tttatcgcc aaggtatcca 4260
gcagcaaadc ctggccgagt tccttgaaga gatagtcaat catttccgat gcaccaggcc 4320
cacatatgac atttcttaga agatcaaagg tttgctcttg cgccgcaatg tcatcctgac 4380
gggcttgtgt ggtttgggtca agatcgccat gcaaagcgag cttacgtcgt ctagtggcgt 4440
ctggaaagaa catatctaga ctgactttgg atgatggcac aggatcggtc attttcatgt 4500
cctcatccct ctcccgaag tcatccatcg gattcagcaa gtctaccgt tcgccagctg 4560
aattggcccg actcatcccg cttggagtgt tactgtctgt atcgtccgca gtctccgctt 4620
attagaa 4627

<210> 1842
<211> 2134
<212> DNA
<213> Aspergillus nidulans

<400> 1842

ctggatggag gccaaagtga aagacagcga agcgacgatg caggtagggc tcggacaact 60
cagagcagtg gacgtgtcgc gggttcgcat gcagttatg ggtgtaagac tgggaaggcg 120
acaggaggcc aggcgggcat agcggggaaa taacggagca aatcagtgtc agagcttcca 180

ggctcgcgggc cagggttaaga gattagagga ggactggctc ttgctcttgt ggtggacgga 240
 acgctggatt aactctggct ggactggaac gggacttgga gaggggaaag atcacgttat 300
 gcgtgactaa tcaaagcaga gaacctaatac tggctgtggc tggtagcatg tctcaagatg 360
 caaagcaccg ccacatgagg ctgggctgcc acggcgattg ctgacaaggt gaggtggacg 420
 atggaacgat aaaacctgga gggctgggct aggggtccaa ggtttgcttc tgcagaaggg 480
 cagagtcagt gagccacaga tgtccagaag aacaacctgc cgcagacggg accgatctgt 540
 gggtagacggc gacgggggtg ggtgtgacca acgggcaaac ctgagtgtag ttctagagta 600
 gttggtccgg ggggtatgcg ccgtacgcaa agcaggatgg ggattagtgg gtggaggggc 660
 acaaagtccg gaggaatgac gaggagtgga gacgaagggt ggagatagat gagcgggtgca 720
 ccagacaaaag cgaggccacg acgctgtaga ttgacgaag agttgaagga ttcgttggtg 780
 agggggactt ggtcacacag gataagtcgg ccaggccggg ctgtttgatt ggctgtggct 840
 atgcatcatt tgtaagctgc acagttcaca tccataactt agaacttgga aaacacactc 900
 agtggcagaa tccgatacga ctactgtacc tacgccatg accgtcgggt agcgcggcgc 960
 ggagtttctc ttccgcttct agtcaggcta actgctagca aggtcggact cgagacctga 1020
 cgaaacagga ctctgcaagc gcggtaatgg cggcctcgat cagcaacctg tgaattgggc 1080
 agcgagcgaa agaaaaagcg aaaaagaaag gaaaatgaaa gaaagcagcc gatgataacg 1140
 aagaaacagg cgaagagttt aaacgggaga agcagcaaaa gggaatgatc aggctggcat 1200
 gctgtgatgg agagcctcgt ccgcgatcga tcttggtcat agcacactgg cagtagacgg 1260
 agagaactcg gaggagcggc caacgcgaag gatgaataaa acgggcagtc ggctgggctt 1320
 ttcgagtacc attttctaga tcctttacta ctgtgactat gaccgtgacc gtgatatcga 1380
 gtcaattcga gttcagaatg ctacagccta cgctacgata agcgccagtt gatcacgatc 1440
 aaagttcatg ctgaccacga gcgatgatca gatcccctaa cgtcgaagca tcctttttcc 1500
 gaagttggac gacatcttcc aagcaggaaa tgatcaacaa tccatcaaag ctgcggagga 1560
 tctaggatcc ttttgcaag aacaagcaag taatatcatg gaagcgcctc gtctgcttcc 1620
 ccattgttta gcagtcttga agagcgccaa tcgcgttatc tcgcacgacc actgcttgtc 1680
 gactgccagc tgagcatccc tagtggctaa ccagtgggc aaagactccc ctaatgcatg 1740
 acaggatgca aggatctatt gagttgattc taggcttgca ggcgctgcag gctagccttg 1800

atgctgtaga ttacggcgcg gcgcttccgt ggcatacat gttggattta gcagcgcacg 1860
 ggctgacgag gccaccctgg acatgacgcc ccaatgcctc aagaggatcg gacgcactcc 1920
 cattgaccgc atggctgtag ctatttgagc tgataagctt cactccttgc tcttccctca 1980
 gactatacga agtcgaagta taccagcgac aggaactact ataagccata cattccatac 2040
 cgctccgtag catgaatcta cagtactata tatactttgt tattggcggt gtgggtgact 2100
 cccaaaaaaa aaataattag aaaaacagcc aaaa 2134

<210> 1843
 <211> 2963
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1843

cccttgtttc aacttctcag ctgcgaatca aagatccatc aatacgagca accaaaatga 60
 acgtcaacaa aagattttac cgcttcaaac agtgggctgg ggaaagaatg ggcggcgagg 120
 tcaagaccaa tgtctctgat gactttaaag ccttggaac ggaaatgagc gtgcgccacg 180
 aaggtaagcg aatgctggac cgattttgct tgtttacctt atgctgaaat tccgcgtggg 240
 ttgaaggat cgaccgtatc cacaagtcca tgaccgccta cgtcaaactt atttccaagc 300
 gcagtgaagg ggaacgacaaa gagaaaacat tgccaattgc acacctgggt ggtagcatga 360
 ttactcacgg agaggactat gaagtgaact ctgaatatgg acgatgtctt accagtaagt 420
 tgaatgtttg tgcgagccca aatcaatccg gaagtctgac tttgttccag tgttcggag 480
 ggagaggag cgtcttgctt ggattcaaga gtcttacaat cgccaagcg acctcgggct 540
 ggctggagtc gttggagcga tctcttactc aattgaaaga taccaagtat gacgaacctt 600
 ctggtttgat ttagggcctt atcttgtcta accggttcta gacattcccg aagagggttg 660
 acacttgacg tcttgcgat gatacttctt ctatcaaaga agcagaaagc aaagaggag 720
 gattctcgcg tggaggaaga gctgcggaca cagaaggta aatatgaaga agctaacgat 780
 gatgtgtatc gccgatgct tgacataaaa aattccgagc cagagaatgt tatggatctg 840
 caggccttct tgaatgccca attgaattat catgagcaat gccgggaagt gcttctccga 900
 ctaaagaacg agtggcctgc tgagtgaagt tcacctgtgc acaattgagt tgaggggttc 960
 tctcggacta atagggctag gcaaaatgca agtcaaccat caactggtca caacgggagt 1020

cgttctcgat caaacacggc ccattcgtag catgaccgct ttgaaccct gcacgaagaa 1080
 catagcaatg gtgttgaggc acgaccggcc attaaatcta acacgcacag ttttgccgag 1140
 tcacctatca gaaaagccta cacgcaagag acttcacctc atcgacctgt cctgaaccgc 1200
 acctcgacat ttgagggctc ttcaccattg cgacaggctc atgagcatcc ggttgccgcc 1260
 caaattgca cgcgaaacgaa tagcgaaaac ctcatatga ggaggaacag cgtacaggct 1320
 cgtccgatta gcaggggtgt accggaacca acggaggacg ctggatatca cagtgggagc 1380
 gtgtctgatc gttcagacaa cagctggact gaatcccgcc aaacgccatt tggcagcacc 1440
 gtttcaagaa gaactagctc cagcaccctg aacggattcc cgcacaagaa agccccctcg 1500
 ccaccaccac cctcgcgcg c aaagaagcct gcacctccac ctccaatgaa gcgccccgtg 1560
 ctcaagtgcag ccaggtatg aggagtttaa taggaaatct atctaggagt acggcgggac 1620
 tgggagttat gtaggacggg gatagggctt gtacagttga actgcgttgt ggctatcttt 1680
 tctccgcaat cacctcgcg gcgagctttt gaaggcggat cattgcgggc taccgacgag 1740
 gttgcttggt ttttgatatt acatactatt gttaattgct gcttaattca gtgctgtcgt 1800
 tcatttccca tcggatgaat taaattatgc gaaatgtagg cagtacgcac gcagtatggc 1860
 ccaagagttc attactgtag atccacgatt tggagtaaac ggctaattcc ggcaacgccc 1920
 tagctaattg ccacctccta ctattccgga agcgggtaat cgactgagtc agcacgcgct 1980
 cgtgcacgtg acggcaagga cggcaaactt cttccaactc ctcttcccca acaggccctg 2040
 ggtgagcacc gccgaccagc acggaaagtc gcgaaagccc cgtccctcca tcgccattcc 2100
 atcaagacag gctttccacg cgctttcttc aacatccacc ctcccttttg ggcttttatc 2160
 cccgccccaa catcgctttt acctccccct cctccccctt ttgctgattc tccttttgat 2220
 cgctaccgc cctgtgcct cgcaccagtc taaacatcac gaatcctat gccaaagtcc 2280
 tgatacaggt cgctacttgt cgcattccat gacaagacac atctagggcc ttggactttc 2340
 gtgattttgc gcgtcttgtc gccttatcat cgcgaattgt caattaccct tacgaatttc 2400
 ctttccacgt gtttcgcttt ctccctgact tcaagtgtcg cataaaaccc ggcgccaacg 2460
 tgtctcttat atttatgaat agacaataaa cgcgctcgat catgacgtcc ctccagacac 2520
 ccccaaataa tgtggccccg gcaaataatga gcctaccggc aaatttgacg ccgcagcaca 2580
 tacaagaaac ccttcaggta tagtggtgct gttttcttat atgttcatgg tctacatcat 2640

gctcttgtcc tccttgccaa ttgaacttag ctctcttttt atttgctgct taacctaaaa 2700
 gttccccctc ctgttttagtc gctctattct aattcatcac agaaattcaa gcagatgcag 2760
 gaacaaggtg ttcgtcaaga tgaccccgaa tatctaaagg cacacaatct cctctctgct 2820
 gttcagcggc aacaagcttt tcagaagcag cgacaattag cacagcagca gcagcaactc 2880
 caggctcagc gccaacagca acaaaatggg tcttccaccc aagaggccgt ggcgccgaat 2940
 ggagtcaaca gtaagacttt cgc 2963

<210> 1844
 <211> 2416
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1844

gtcctcgtgg tgcagtcaca ctgaagtctc gacggccgcg gcatgtcagg tgtccggtta 60
 tcgaaggtat gaacaaagcg agaaagttat tggtgatgag agaggctcgtg aacacaaaac 120
 cggacatggt atttattaga ataaggagaa ataaggagat cggaaggatt gttgcgctaa 180
 atcaagtcta tggaaatgat atctcaggaa ataatggctt atgaaccag gaccaagca 240
 acaccgatcg ctatgaagca cgcactaaac ccgcacgcag aaccctaate tcattaacca 300
 gtctcagttt gtgtcaatgg agctatatag ctgattcagg gactgacct ggaaagcagg 360
 gacaagaatg tccatctcta gcgacggagc attgcgaaga ggaggatggc tctctaaccg 420
 tctccatgga cacagtccac gacaattgtc cagatccact aaagcttctg caggatggat 480
 tctctgcgca gcccatattg catccggtat aggcgagggg ggtccaaggc acctctcggc 540
 ccagaatgtg taggtcgccg tgccggctgc ttcattctatc cgaggctgtt ttcgtggaca 600
 tcttagaaga gtgttgcaag agctgcagac cgagattcgc cgacatgaag agcagtaatt 660
 ctcgttcggc tggcaaagcg cggatatggc gacgccggag agccatagat ccaccgagcg 720
 atgtgcacat ccaaagcgag cggatcatata attctctca ccaagctggc ccgcgactgt 780
 tgtcaagtgg tattcgggtc tgattttcag ctgggtcatca ccgtccagct cagggtagat 840
 ttcaactcga atttgagtag gtccatattc cacagagcac gagtgccagc agaagcgctc 900
 ttccacacca ccgaattgtg acgtcaggag tggcagagcc ttctgtcgta tcttcaagat 960
 ttcaatgagc tccagcttgt cgcggaaagt caacttcttg caagggcata ggtcaaccac 1020

accggcaaga tcacctagta tgcacatccg cgtctcggca ttgcgcctca attgtcgggg 1080
 ggggaaagca gattgcgagt gtagcttcag gcatcttgaa caggctcgcc aacgggcatc 1140
 ctcgagtaac ttgatcagct gccatcgagt tgtagcaaag gtatgtccat tgcgataatg 1200
 gtggaaaaga ggagcaaaat cgcgactgaa ccgaagcgat ttagattcta gaacggtggc 1260
 ggatattgag agaagtctct tgcagggtcaa cgcaagacag gcctgcggta acaccgttaa 1320
 atgtgagata atttccagta gtaactctgt gggaagttca agaaggtagc ttcgcttcgg 1380
 tggaccgggc tccctagaac gcgcttctat ggcgtgagat gggcgattct tggatcatgac 1440
 ggcccttagt ttaatcccag cacggcgaac actatgcatt ataaagctct gaagtacgcy 1500
 aaaatcggct tgggtcgtgg tccgagatat aagactccga aacaaagacc ggtgtgaaat 1560
 gcgtggcgaa tcttcctggc aaagtttcat gaggatagga gcgtctattg acaaaaattg 1620
 gtgtgtgcat gttctgaggg aacatagtgt ttaaaaggca aatggcgcac ttgcaccgcy 1680
 tgatggagtt cgacatgata agagaagatg gagggcattt tgactctcaa gtactgaaca 1740
 cagatggctg tccacttggt gcaaacggca cgcgcgcggt cagtgtggtc agcgcggtcc 1800
 aggctgggaa tggctttctt tgtttagccc cccgcatgcy ccgtgctaac agctgttccg 1860
 agctcgaggt atctggaatt ggctcgaatt gatatccttc taatttcgga tgaaagctca 1920
 ggattgttag acctgttggc gcagtttgag gcgtcccata cgagccgcat gcggaaagcc 1980
 ccacaacagc ttcaattggt actatcacct aaacaagtac agagagagaa gcgcctatca 2040
 ctacgatgta agcgggtctac tgcacatttc aaaggaagaa atatcgctg accgtcactg 2100
 cgtgcaccag agacaaattc aagtcaggcg accggcgtcc cgctgacatc tgttttctgc 2160
 ctgaggcata aagagctgtc acatggccat gagggacta acaagataaa aaagatggtc 2220
 tgaagccgca aattcgaatg aacgctaaac gaggggtcga acgtatctca cgaccctgag 2280
 aaactgattg atgactgaca tagtccgtgt atgggtctgc ccaagggtga gagatatcac 2340
 gtgatcgctt gccacaagct gacgcagtac tagagcaact cttcgagcat ctagggtgat 2400
 aaatttatac caaaaa 2416

<210> 1845
 <211> 3493
 <212> DNA
 <213> Aspergillus nidulans

<400> 1845

cacccgggtc gcatggaagg cgaactggtc gcctttccct tgacgatccg cgttctgcgg 60
ctatcaatgc tatttggggc acttagagac ccggctatag ctcaccagcg taaacatata 120
tgaagcaacg accgcttagc aagtcttaga ttctattccc attagagtca aggacttaat 180
tacatctata attccatttg aactactttc ttcgataaat tcccattcgt catacccagt 240
catcatggtc ggtttcgata tgcacgggtt gacgcctgcc ccagtcacgc cgttcactcc 300
taccggtgag atcgactacg acgctatcca acggctggga agctgggtca gtagtatgaa 360
cggcgtcaaa gggctcgttg tactaggcca cgcaggggag ggcacctttc tgactgccga 420
ggagcaagtc gcggtgatca aggcatttgt caagtcagtt gacgacaaaa tccccatcat 480
cgctggcatc accggcgaag gaactgaggt ggcggcacta gaggcgacg cgtgaaagct 540
gctggggcga aacgggcctt ctgtatccat ctcacggctg gctgcggttt ggataccagg 600
acggagcacc ccaggatcgc taccgccgtg tctacgaggt cagcaatctc ccattgattc 660
tcttcagta tccagacaac accaaggcca catatagctt gcagacgatg ctcgatatcg 720
ctgcgcaacc ggggtgtcttt gcaatgaaaa acgggtgttcg aaatatgcgg cgctgggata 780
cagaaatccc tgtaatccga cgcgagcggc ctgacctgca gattctgagc tgccacgatg 840
agtatctgct acatactgcc tttgatgttg acgggttttt ggttgatat gggaatattg 900
cgccggagcc gctgattgag ttgattgagg cgggcaaagc caaagactac agaagggccca 960
gggctatcca cgaccggctt ctcccgggtga ccaagagcgt ctatcacctg ggatcgacac 1020
tgagggggac tggtgctttg aaacacgcat tgggtggccc agggattctc tcacacgcca 1080
ccgttcgatc tccgcttcgt ccgctggagg ctgggtgctga gcaggagatc catgctgcaa 1140
tcggcactgc tgcattagga aaggttgcat agaccgttat gttccttagt actgtgtata 1200
tactttcagt cagtagcttt atggcaccca atctgtttta gcttagttgg tcggagcatc 1260
cccggctgca gtgccctagc ggattaagcg gagactagac cgaggccaat gtcggctttt 1320
cctgctgcaa atacataagc agactatagt tgcacatctt ttggggtaat tctctgttca 1380
aagtatgcgc tttctaattg gtagctttac cgtgattgat aactattcct tccatgtcag 1440
attctcatag ttcagcttgc tctccgttcg agaaccggag aaaggacccc aaagtcagtc 1500
gcgcctgtga ttcgtgcaaa gcaaagaaga tccgctgctc ggttactcta ccgtgcaata 1560

tatgctccag aagaagggtg agttgcagct atgccagtcg atacgctcgc ggacgtccac 1620
 ctactcctcc accacacaca cagagccatc taggacgaag tacagatagt gggcgagaac 1680
 tgactcccaa tatccagaca aatgccgcag agtcacgcgc aacatctgag ctggtaatcg 1740
 aaggccagta ctttgacctt acgtcggggc tcagctttct gcaccgagct acgagtaagc 1800
 tctcggcgca aagggggcaa tatgttgccc atggatatct cgacgttcaa cgaaaccagc 1860
 ttcttgcgtc agcaggagac caaccgttct atcaggggtga ttccagtgcc gaggcagatg 1920
 tgctgccgga tgacgcgaca acccgggaga ggctgtccct ctatttcgat acgtgcgtgg 1980
 tcacgtaccg catgcttcat cgccagaccg tagaacggtg gttagccagc atgctgcaaa 2040
 acagagagca gggccgctct atcgccaact cgctgggaaa cgcccgta ca gcgagcatcc 2100
 tggccatcct ggcaattgca gaccttcggt gcttcaagct caagcgcaag cacagcaata 2160
 gcgccttgaa tgaccctcag cttgagtctt gcggtcttcg cgaaagcgac cctcttttct 2220
 acgcttcaat gatgcgtacc gagtcggaaa cagggtttcc taccctggaa tccgtccagg 2280
 cgcggtctgt tcaggttcta tatctacttc agacggggcg catgaacaaa gcgtggtata 2340
 ccttcggcaa tgcattgcag atcatctcat cactgggtct acatcggaaa cagtatcggc 2400
 agcataatgc tcttggccca caggcggact acatcgagca gcagtgtgcg aagcgctct 2460
 tctggactgc gtacacgatt gacaaatata tcagcgttgt tcttggggcg ccatgcctca 2520
 tacataatga gggaatcgat caggaatttc cagatctggt taacgatgag aacacggggc 2580
 cagacggacg cctgacctct gatgcgaggg aggagtgtca tgtctcgtct ttgatacacc 2640
 atgcaaagtg cgttctcacc cgatttggag ggcttgggt gaggttcaac taacgtgcat 2700
 gacagaatcg cacagctcat cgggcgaatc tcgaccgacg tgtactataa aaatcaaaca 2760
 gaccatgcag ctgccgcaa tgtcctcgtg cgtgagctgc aagagtggcg cgcgagctc 2820
 cctccccatc taggcactgt caagccatca acccttattc caagtttccg gcgcgaggcc 2880
 acggccttgc gtctggccta ttgccatgca ctaattcacg taacgcgccc atttctgctg 2940
 ggcgatggga agcacagtgt tgacaacgat ccggcatccc ggacaaaaat atccgagtgc 3000
 ttgtctgccg caagaaatgc tctcgagttg atcggtagca ttgttgatga ccatgagctg 3060
 tcccactctt tctggtggac ccagtacgtt ctgttctgcg cacttgagct tgtgtatgta 3120
 tgggagatcc aacggaatac gcatcaaagt cttgaggaca gcggcggcct gacctatgca 3180

tctcacgaga ccttgtttga actggctgag agaagcaggt cctatctccg gggcggcgct 3240
 gggttcgctgc acctctccaa cccgaactcc cgctacggct tgattctgga ggaagtacga 3300
 ctggaggctc aacggcaggt gtcacagatt cgaagtcgaa gtactcgtgc tacattggga 3360
 acggaaaagg aggcggaaaa taggcgcgat gaggcagga gcgaccaacc aaagccaatt 3420
 ccagggtcaa atgatgaact ggacatcact acaagcgcca ttcgcaacgc tggctccagt 3480
 ataccgaaag ctg 3493

<210> 1846
 <211> 5011
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1846

cttctcgttc agtcggcact gaatcttctt ggaccccgct cattttgcga gcgcgctcag 60
 catcagcctc tgcctgcgct atccgtttct cctccttcaa tagcttccgt cgtaacttct 120
 cggccttcat tttggctttc gcggtgcat cggcgggac cagggcgact cgagtctgct 180
 ctttcttttc ttggtccttt gcaagggtag ccgctgactt gcgagcttcc ctctgctgcc 240
 gttgagcttc ttctctggct ttcttcgcct tctttgcttc ctccatagct ttctttttct 300
 cttcaatttt cgcttgggta gggaaacgct tcttgcgctc tgcgatcaa gctgcgatat 360
 ctgcagatgt ctgcagattt gatgttcgct ctttgtacgt gatttgcaat gctaccccag 420
 tgccctgggcc accggatgcc aacctgggtt cctcatcggc gtcattctcc tcctcactgg 480
 actcgtgctc ctcagtcttc ggggttaacc cttagctgggt atgcttccgc ttcttcttct 540
 tgggttttcg ttgcgaatca accggcgtag cggtttcaaa ggcagaggat taccggaact 600
 agggaccgga ggtggcgccg ggaatcgtgg agctgtcgac tgaggcttgc caaatgctga 660
 cgtgtggtcg cgcttggtcg catgtttgcc gggagagctc tgattattat aggtgttggt 720
 ctgacgcggt ccccgttggc tgggacgctg caatcctgga aatgagcctg aatgtcctgt 780
 gccctcgaaa cccagcgga taggagggcc catcattgtc ggctgcaccg atggcgtagc 840
 attttgatga gcaggatgtg tttgagtgtg tggaggggat tgttggttag gtgttgcata 900
 tgtagtacca tagcttgatt gatgctgata agccgtgcca ttaacggcag gttgcggata 960
 atgcgacgta gaggcgaatg tactcccagt cacggcattc gaaaaagcct gcgaagacga 1020

ctgcgtataa tgcggcgctcg gaatgcctgt ttgttgattt ggcatatggt gagctgggta 1080
 ccctgagtgt gtcattggcg catatccagc atgagctgcc gcgtagccgc cagagtgatt 1140
 ggcatcggag ctcatgaaat gacctcctct acctctattc ccgtagcctc tcccacggcc 1200
 cctgaattgg ccacccccgc ggccaccccg ttgaccatgg tgattctgcc catacggcgt 1260
 gaacgcattg ttatgagcgt attgttggtg cggcggtatg tgtgtaggag gcggagggtg 1320
 agggggaggg aaggagaatc cctgagggtt catggcgggg agatctcggg cgatcttcag 1380
 ggatagaaag catgcactcc atcctcacag catcgtaaag gttgcgacaa agctctgcag 1440
 ctcaaaagtg cccttcatga agcgggtcca agcgagtatg tcgcccgcctc cgatggcaag 1500
 gaatagtgtg actggtcacg tgcttaattg ccagctaaaa aaaaatcgag caggttctcc 1560
 ggctgcgatt ggctggagga catggcatcg tgagtcctgc tggagggtttt gggctttgag 1620
 ctcgagacaa aagtatcggc atggccagat gagctttaat ctatactgtt tctgaaactt 1680
 ctgtggattg aattctgaac atgggatctg cattcaatca aacctatcct ccgctgtgat 1740
 acctgaaaat cgagaattcg ggcctgcttt tccgcgggtcc cttccaacat catgtttatc 1800
 cttgtgagta gaattaaccc agtccagacg gggaacagat gcttaccggt gctggcagac 1860
 caccatctca gatcttattc agatttcccc agaggatttt tcaaaatata gttccgttgc 1920
 catcgaggac aacattaatg aaaagtacgc caacaaagta agcccatctc gatgtccctc 1980
 aggttcacaa ccctagtctc ttaaaacaat tttgctgact ttactggtag gtcattcaga 2040
 agattgggct ctgtattggt ttctatgac tcttagagtc atcagatggt ctgatcggcc 2100
 atggcactgg gtcgtcaat gtgaacggtg agctagccca gtctccatcc cgatctttca 2160
 tgatgttcta gccgactgac atatactaca gtgaagttcc ggcttattgt gtttcgcccc 2220
 tttagggggg agattgtgct gggcaagatc tcaagcgcta ctgaaaatgg cataaaaagt 2280
 aacgatgggt cattccgtga tgacgctgta tgctaattca ctggcaccag tcggcgtaga 2340
 atttttcaac gacatttttg tacctccaga actccttttg atggcgctag attgtgagtc 2400
 tcacacagtc tttgcttggc cgtggctgac gtgaagcagt gattaccagg accaggtttg 2460
 gatctgggaa aacgaagaag ggacgttcta cttcgatgta ggagaagttg tccgcttccg 2520
 cgttgaaatg gaagaatggc atgaccagat tcccaatgct cctgatcttg gagatggcgc 2580
 tccaattgac cgcaagcctc cgtattctat tattgtatgt acagatcact ggaattcttg 2640

aatatgccct tctaattggaa tacagggatc tatgcagatg gctgggtctgg ggccaatatc 2700
atgggtggtag agagtgtttt tgataagatt tgtagagtaa cgccacggaa gcaattgtgt 2760
acattggtat ctgtgtttga atgactgtat gacccgcata ttagactacg aatgattcat 2820
attatatata ttgtacagcg aggtagaaca ctacagctct cctcgggttc ctacatacgg 2880
tgtgtcgagt gaggctcgaa aaatgacgtg ctcaagggcg ccgaacgca caccggccggg 2940
cctcaacaga tgatgaatgc gccaggaaca ttctttttca aggactaatc tgagcgacat 3000
tgcattagtg cgattttgat gtatggcctc ggttatcgcc ggaacgagat tggacagtag 3060
tcacaataat aacagtcaac gatatacaga ctctgtttag atagtggagt cgagtgtcag 3120
tcatcgcttg attgcgggaa gcgtggaacc ggatcgagct actatacgtc gtcctgagca 3180
atgcaacgta aaagaaacct ggtggaggaa aataatccgt aggcaggcaa attccattat 3240
aaatgctgag aaccttctcg ctggaatgcc ataattattc agtttatctc ggtgacgaaa 3300
agattatcat tacaatcag cggtcgcaaa tactttgtag tacatataac ctgaagccgt 3360
taccagccat cgagcgctgg acatcatttt gttatcgttt gacacatctg ctggccaagg 3420
ggtagaccgc cattgcattc tttagcgctc cgatcccttt atttttctta tttgagagct 3480
ccttgggggt tctttttctca gtcccgtagc gatgacgatg atggcgggac atccagatct 3540
cccctccaac ggccagaacg gcgactcgaa cacacatcag cagcgccaat ttgcgactct 3600
ggcgcgtccat gctggagctc ctacagatcc caccactgga gctgttatcg caccggttag 3660
tctgcgcttt tgagacttcc cattttgcct ggaccagcgc tgactgtgac agatatccct 3720
gtctacaacg ttgcacagc aaagtgttgg taagccggta gggctgtacg aatacactcg 3780
aagctcgaat cccaatcggc cagtacaaga tttcaaatta aaaattcagt tgaatactga 3840
cttcagccag agacaatttt gaagaggcgg ttgcttcgct cgagcacgcg aaatatgcac 3900
tagcattctc ctccggatct gcgacgacgg caaccattct ccactcgta gtcctggct 3960
cgcatgtcgt ttccgtctca gatgtatatg gaggaacaca cagatatttc accaaggttg 4020
ccgcggcaca tggcgtaaat gtgtcattct cctcgtgctt ggaattggac gtggagaagc 4080
tgatccggcc aaacgagact aaacttgtct ggattgagac tccttcgaac cctaccctag 4140
cgctggttga tatccgcaaa gttgccgcgg ttgcgcatcg ccatggcggt ctggttgtgg 4200
tcgataatac cttcatgagc ccttacgttc agaatccatt ggatcacggt gctgatgtgg 4260

tgattcactc cgttacgaag tacattaacg gccattccgt aagccacctt gtctccgggtc 4320
 ctttcacccg tgtgctaacg atccggtagg atgttctgat ggggtgttgca gccttcaatt 4380
 cggacgaatt gaaagagcgc ttacgttcc tccagaatgc cattggggct gtaccatctc 4440
 cattcgattg ctggctgggt caccgtgggtc tcaaaacact gcatttgcgt gcgcgagaag 4500
 ccacagccaa cgccacgggt gttgctctag cactcgaatc ttcacctcac gtcatatctg 4560
 tgaattaccc tggactcaac tctcatccga accgtgaaat cgccgtcaag cagcatcgca 4620
 agggcatggg aggcggcatg ctgagtttcc ggatcaaggg aggtcacaag gccgcccac 4680
 tgttctgtga atataccaag atcttcacac ttgcagagag cttaggtgggt gtagagagtc 4740
 tctgcgaagt tccttcaagc atgacccatg ctggaattcc caaagaagag cgagaagctg 4800
 ctggtgttta cgatgacttg gtccgcatga gctgcggaat tgaagatgtt gaggacctga 4860
 cggctgatac aatgcaggca cttgagaggg ctgtggctgc aagccaggcg ctggagaacg 4920
 gaagtgcttg attaagacac aagtaaactt gacgacggta gagcaataga gccttttctg 4980
 ataggataga ctcatgtcga atacgaagtc a 5011

<210> 1847
 <211> 2199
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1847

gcaaggtaag ctttcacgtc tgcattgtctg ctctactctg atgatgaaac tatagctgcc 60
 atgaggcttc gtcagctcgg ttcaacgcaa tccgtaacct tcatcgcacc gccagaagtt 120
 catcagagca tattgcacgt ttgtaataag acctcgaaag ataaactgga ttcgtctgac 180
 gtcgtcgctt ggctgcttga tcagacgtgc gcagtcaacc tcgagctctc gcctttgtac 240
 ttgcccgaag gcaaagactt cacttctcga ttgcaagcag cgacagcgca caaatgata 300
 ttttccaatg ttgaacacag aacagcctac ctgagagttc tgcagcaacc cgaacagcaa 360
 accctcgagc aactatacga accaacctac cgcaagaaa ctgcatcgtc gttatctgtc 420
 actacctttg cctctgcggg taaagtgggc aggctcatgc aagcgctgga gaagcgacga 480
 ctggagtctc ataagttggc gtcggtcatt agttcagctc ttgagcaagt agaacaggaa 540
 cgcaagtggt catatgagat tgaggaggaa agagaaatac aacgccctag tcagaaaaag 600

gccctgcgct ttccccggtct gcatgagtcc atcttgaatt ttgccaaagg agaaccctt 660
 gggctcttggg gcattctatc agcgtctgaa tggctggaaa agacgcacct tggggagaag 720
 tacaaaatcg aaggctcctc gctagtatcc catctccacc tttctgcgga gttttcaagg 780
 accgacaagc tgaagaattc agagaaaagc gataacctaca tacggcccgt gaattgggtg 840
 ctttataata ccgttactga gacagctctg gtgattatta gtgaggaagc agaaatccta 900
 atcccaatca tgagggttcc tacttctcga accactcatc tcctcctcta tgcagcgccc 960
 tggaccaaat caatgctgca ctttaataat ctgacttact attcgctacc cagcctccgc 1020
 gatggctgga ctcccccaac ttggctcccg tttgagttag gtattatcgc aggaagactc 1080
 tactttcctt tctcagagta cgaagatgcc tcaaaccctc tttattcgct cgcccgaac 1140
 ccagacggtg aagatgaatc gctggattcc tgggccaaga accaccttaa cttcttgcag 1200
 gaatggctcg caatcagtcg tcagggccag gacgttaccg ataccccgat gggctacatc 1260
 tgtcaaaact ggccgctgcg aaggggagcac cccttttttg ctacaaggag tgcccaggag 1320
 ggtatgaatg cgcttgact ggagtgtctt cgatttacga tgtcagatca ggaggaagag 1380
 tactatagta gtgatgaaga tttgatggaa gttaatatgg gcggtaatgt tgatgatgag 1440
 gtacatgggg aaaatgttgg aattgagtga tggacttgga ttgcaaggta ttgagtatcg 1500
 cagtgactag tactggctgt gtcattattgt tcttctagaa tgtttatact gtatttcatg 1560
 cgcgttgtgt acgtagatag atagtgaag agaagttaga cgctcctcg tgagggggct 1620
 gtgtctagat tttccatctt gtgcctccgt gctgtaattt aactccagtc accatcagct 1680
 gtgctagtgt gcaagtagaa ttcgcatgac cctctctata gccaggctga gcaatctgtg 1740
 aagatcatta gagctacaga ccagcaccat cgagttgatc cactgatgga gaggaaccg 1800
 tgtcaagata ttctaacgta atgtgctgag atcagagatt accataactc tataatctgca 1860
 ataatctgtc agattatgat aaaaagtgc actggctatc tcaaggcaac ccatggctga 1920
 tcctgactcc aataaaattt cacaatagat atgttcaaga tcccgtcatg agtatagacc 1980
 tggcatgaag aaattgtttg tcttatatac cgtagcaact gacaagctgc agaagcttcc 2040
 caagctgaaa gaggtgcca cgaagggcaa ggaaactatg gtcaatcatg atcggacgga 2100
 ctttggttaa acaatcgaac tccgtttgat tttcctgact ggatacgatt cgtgatgatg 2160
 ctgttgaatg aaaactaacc tggtttcctt gctagttca 2199

<210> 1848
 <211> 4770
 <212> DNA
 <213> Aspergillus nidulans

<400> 1848

aaggttgtga atatgagata gtattagttg tagaaaacgg ataaggaata tattatttaa 60
 gattaatgag taaataatac ggagaaaaat ataagtaata gtaacagtat aaaatagaaa 120
 aaaacataga acatttaaga tagagatata taaaataata gataaattta ctacaattga 180
 gaaactaata attagacaga tttaatgaga gagatataaa ataagaacaa ttgggaacta 240
 aaagcgatac catggagagt agaaaaaaaa gcataaatta gatacaacca cggatagagc 300
 atatagtaaa ataatgagta tagcaatcac gaatgaagaa ggagaccata taggggatag 360
 ggttaccctt ccaagggttg attctataaa agtggatcaa taccaagggtt cctgccccaa 420
 acaaacggac ggcgaaagac caaaacaaat gttgcattaa gttgcccggtt aatcctattt 480
 accaccatgg atcgcatctc tcgtgcttgt ttaggtcatc cttcctcaaa cacgactcga 540
 ttatattcta gcattagcgg gcgtagtgct ttttctttgt ctttcgaacc tctgaccatt 600
 cgtgttcata tttcattact ttaagtcgac tagagcgcgt ttctatctat caaacggaac 660
 gagacgtcta gtttaggata aacatgatac caggtagata gatgtgcatg caatgattca 720
 atcattcatt cgtataactcg taccagaccg tactatacca gataacagcc caagatgctc 780
 tttctaaaga catatatggc ccagccaggg ttgctagatc aggtctttct gcgtcatctc 840
 gtctcgtaaa gaatcaataa caggcgaaaa acggccggat tgggagatag caacacgcaa 900
 atggggtaga taggtgaatg gaatgccacc ataaacaaca aacgggtaat atgcagagaa 960
 cgaaaagaga atagaatgga atagaatgaa gagaagacaa aaagcgaatg atatgacaag 1020
 gcgtctagtg gatatacaata actttttccc ttctctcttt tagcgttgtc cttataaggc 1080
 aactccccac acccctcgcc ctccacaaac acctagccaa tcgcgcgggt gaccagcact 1140
 tgtggttcct ccctgcggcg accaactgat gtttgagatc tcgtagtcac attgccatgc 1200
 agctgcgggg ccacgttcgg tagttgtgga gggggcacct gggttgtgga cgccgggtgg 1260
 aacgggggtg gtattgtgct gggtgatgag gtcccagaga agaacgaggc agtcatctgc 1320
 gccggaggca agaacaccac gccggttggg agaccattcg acggtattga ggggcgctga 1380

gtggccctta agttcgagga gagcttggcc tgggtgccgg acgtcgagaa ctcggaactat 1440
 gtttgaatct tgggagaatg tgcgcagaag gtgggcatcg tgaggcgagg ctgcggttat 1500
 gagtatagtg ttcaaagtgc tttgggagtt ctggggctta ccggaaatgc gcagcagtgg 1560
 cgggggcaa gtggtagtgt gtgcggaggg acttccattg ccagggtca tcaactaatgg 1620
 catggtctca gcgtcaaaaa tcaagaagca ttgtcatgta tagggcttac atttctcggt 1680
 cttctccgtc ggctcgtata tgatcgtgct gtgttccagg ctccggagat caaacatgcg 1740
 cacacttcca tcagcggcac agctgacgaa aacgtcaacg ctgttggcgc agaaacgcac 1800
 gtcgtacact tccttgctgt gtgcaatgag ctgcgtcttt gccgtcaatg tgggtatatc 1860
 ccagatagtg caagttgtgt cgatgctgga agtgataatc aggctgggag atatcgtatt 1920
 ccagtccaga gatgtaatag gagcggtatg ctccggcgat ttcgaattgg aaagcaacgc 1980
 cagaggcgag agtttagctg caggcatatc tctctgacct gacggacgtg tgatagagtt 2040
 agagctgtgt tgaggctgcg agtttggtaa tgaccataac cggagatgat ctccagaagt 2100
 ggctagaagg tcagtggatt gcttctggga cgacggcggg tcccaaagaa tgcgtgtaac 2160
 aggatatgag tgggtggcct cagcggattt cacgtattcc agcttaagct ccccggcact 2220
 ggcatcagga gtatcagggg cgggatatgc cagggtgagt tccaggattt gtatctagat 2280
 cggtggttag aaataggtga caagcgtatt aaccaccatt atgaataaat cttacataat 2340
 tatgatggtc ttctagatag cttcccagag cgatttttcc gccaaaggaa ccaggatttc 2400
 ctgaaatcgg ccacttgcac cagtcaacag catagatggg ccaaggggta atgtagttgc 2460
 tgtttgtagg cacctggttt tcgacacttt ttgaagcagc tgcacccgcg tttgtagcat 2520
 gatcaccgag aagatccccg gaaggccgaa tatcagccag gccagaggc gagtatttag 2580
 cgccctgggg agttggcggc tggaatgcag cattcggaga cgacccatgc ggctgtatc 2640
 ctgccgggct cgacctggag tgtccatggg aattcgccgc attggaacgc ggagtgggtg 2700
 actggggctg cggttgaggt tgttgctgga tctgtgtaga taaatgaggc aacgttgga 2760
 ttgtggacgg ggctgtattc atggatactg ttgggtggcg attggcagaa ttgccgggtt 2820
 ggagagagcc aggaagcgtc cctcctgtaa cgcctcgct tgcgcctcca tattgggttag 2880
 actgggaact tgaagaatgg atgtttatgg atggaagatg tgtatcgggg ctcgtagggg 2940
 attcgtggga cattggctgg cgcggatgac cgctgatgt agagtttccg gccggaatgt 3000

gaagctcttc cggttgacgg ttataaatag tgcaccgtct ggagtcgaac ggctgcgcgg 3060
 ggtttgtcat cgcgatggcg gttgtagaag ggaggatagt ctggaaaggt aatcgccgca 3120
 ccaactgcaa gcagcgggct ctttacagcg caaactcgtc ttggtcgttt ggtcaacacc 3180
 actgtggccc tggttatagt tgggtccgtt gagagactcc ccccttctta atggatacgg 3240
 gcagcaatcg gcacgcttgt gaaagcactt agacgcgaca aggacgcgaa cctggttgaa 3300
 gccaaacgaa ggaccttgca gattcgacca gattgcaatt caacaatgaa gagtcggata 3360
 cgagtcaaag tccaacgaat ggcgtgcagg gtgagccaag ggagacagga agtggaaagag 3420
 cttcttaggc tggagtcttg gatctccacc tgagctagag tcgagtcggt gcccgcgatg 3480
 ctgagtcagc cgtttgcacg ggacggtaag attgaactca ttggtattat cttacccttt 3540
 aggtacagcc tccgcttcct cggtcgcttt tcgtcgtgct cggatgctat ctggttaatt 3600
 ctgattccag cctattttcta gttctttgct tcctcttact ctcataaagg cctgatcggt 3660
 tgtgcattct gagtccctca ctgcagccg tcattccatg acctcatttt aatacatccg 3720
 tatcggcttc gtttggtgag cctcttcccc tccttatctt gagcttcccc gcgatgcctt 3780
 cagatcgcat caccacacca tcggctttgc ttctactgcc gcctcctcca attgtatctt 3840
 tcgatgaatt ccgaacagtc tacgagccag tattatcttc ggtcttcgcc aacctcttaa 3900
 atgcgctcaa tggttcaaat cgcaccgctt ctttgatat tgcaactctca ttgcctggtc 3960
 tcctgtcgcc atcatgtcag ccgcgcgacga gagctttcgc gagccttcaa cgcatagtgg 4020
 aacatatgta caggctcatt ggggtcattt ccattgaacg gaaaattgaa atggaggctc 4080
 ccggtggcat tgactcgcgc gtgatcttgc tggatttcga ctctgtccga ggaacaccag 4140
 ctacagctgc taactctggt ctggtcgagc gcaacggccc gattgttgat ttgaaaactt 4200
 tggctagctc cgggcgcctg tgggataata ttactatcc ggaaacctcg gtaggccagg 4260
 agctggcgac ggcgtttagt aatatctata cctcaaccaa agacccaat ggcggactgc 4320
 cgcagtcaat ttcgggatcg cctcaatgga ctccgggtca atctttggtg gattctgcgg 4380
 gatcggtcgg atctgcccta catcactcag tcactctggg aggcaccttt gaccactttc 4440
 acatcgggca caaacttttg ctacaggcca ctgctcttgt cctgcaacct gcgggaactg 4500
 gcccgaccgg ccagaatagg accatcacga tcggtgtgac ggcgatgag atgttgaaga 4560
 acaagaagta cgctcagttc ctggagagtt gggacgagcg gtgtcgaagt acgggcgcgt 4620

tcttgacctc gatcatggac ttcgggcctc ccgaaacaga gcctgcccac attgagcgaa 4680
tctataatcc gggaccaaac gggagacaga tagtgatgaa gatcaggcct ggaataaccc 4740
tgaaaatggc gcatatacat gtaccgtagg 4770

<210> 1849
<211> 2353
<212> DNA
<213> Aspergillus nidulans

<400> 1849

aagtagagtg aaagtaatta agtgtaggaa gatgataaga tagagtggta acaaatgtga 60
aggcgagaat tagtaggata tgatgaagaa gatagtgtga gaggaaagtg aataaataag 120
tggaatttag aggatagatg agtggtgaag tgtgaaaagg aagagaaagg ggggtagaga 180
gatgaagacc aggaatgatg aagaggaaga gaaggtggga acagaagaag tagatataga 240
gtaaagagga gactaataag cgaagtgtag atagagaaga gtgtgaaaaa taagttgagt 300
aataaagaga taatagggaa tatagagatg aaaagagaag gttgaatagt gatagcattg 360
aaagagaaat gaataggagt aaaaatattg aagtcttaag agaagggaga ggatagaaag 420
aatgaggagt atagaaaagg ataagaaatg atgatggttg aaagaaatgg attatatggg 480
tagatgataa gaaaaggaag gagagataag tagtgaaagt ataaaagggg gaagacaggt 540
aactaggtgg aacagggagg atagaaagag ggggatacat attagaagaa agataaaacc 600
ctataagtgc atttaagatc aagttagacc gtggtttaag aagtcaaact agaggtcagg 660
ggggacataa tgctcctcaa gagaccgatc aaagtattat ggctgttccc aatcctcaaa 720
tgctgatttt ctacgactgg atatatggaa gatatgctgg cgtctcaaaa ggattctgct 780
gctgagcggg cgttctcatc tctaataaat ggcgagacta tatagttgtt gggcttagct 840
gcatggcggc tgctaccacc cagcagaggt tgggtcagtt atgccgcttg aagcacgcgc 900
ctgatgtggt gtaatgcaaa gtgtctcata gcggctctat aactagacgt cgcaagcatt 960
aacctgaagc cagaatacca caacatcttg ccaatcgtag aacgagaata atttttcgcc 1020
cttgaactaa atccgcaata tggacgggta ctgagaatcc aatacctcgg ccgtaggaat 1080
ggaaggccga gaatcacgac gtaatcctgg gctagtaagg ccggccacgc acactccgcc 1140
tctccagagc aatgggacgg ctgcttgctc tttgcttcag ctattgtcct agagggcagt 1200

gccagatcaa tggatatgctc tgatagtcag atgaagcaag ttcacccctgt ctgtcaaaga 1260
 tcaactgcgt ctaatacttg ggcccgagcc gtgcagtcgt tattccaaga gggatatcaac 1320
 aagtaattat ctctatcgat agcataaatg tcatgtagct tgtgcggttag ttcgagggtca 1380
 aggctggcgc tgtctgtcgt cgatcattat cgacgctttg agcgatcttt cgcgcttgga 1440
 cagcgacggt ctatggctga gacgcctggg caacgaattc actaagggtta ggtctcgttt 1500
 ctggagagtc agccctccat gtctgccata aggtcggcga tgttgccgct cctggcgtaa 1560
 cccctctcat tctgttgagt tgatacgtct cgatagtcga ttcttgccga gagagactaa 1620
 tcttcatctt tctgctttgg ccattacggc tcaagaaatg caactctccg tgggtgtggat 1680
 aatcaacgtc ccaggatacc cgttctttgg ctccctgtgc agctgtgtcg cggcattgca 1740
 gtggaatcgc cgcggctata tcaagcataa tgacatgagt aagtattgca gaaacctcat 1800
 cctggagtcc gacgtgggtg gggggctgca cgtcagggtta ttgtggaaga ttgactgaga 1860
 gctcataaaa tgtaccaaata ggccggcacag caagggtcgt tcggatttga atgcggaatg 1920
 agctctgtgg cgtaaccaga ttccctgaga atgtcgacaa aaaaggcgca aggaaaaccc 1980
 ctgccactgc ttcaaccttc ggaacctgat tgcttggtg tagcgtgcca attgaagaga 2040
 actgagttgc cttgaagtca cagggaatgc cagcggactg gagcacaccg cggaggtcgt 2100
 ttatgagcga ctctaaccat tggatatgag acttggtgctg taagtaagcc ataatcggcc 2160
 gtagaatgtg atattcgggg accggctcggc gcttcggagc tagtggggga gggggttgtg 2220
 tcctgcgacg aagattctga cgggtggcgt atgtaagaag tatacgaatg gagtgagcga 2280
 cagcatcggc aaacacgtct tgctcagtgg aatcagctgc atcggggtga cgatcctggt 2340
 aacagtcgac ccg 2353

<210> 1850
 <211> 2475
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1850

ttgccagtca tgtaactgag gaatttcata tagctcggcg gtgcaagcat tgcacaccag 60
 tggtagtgac caccagaagt cggcgccctt gcactgtcag tctccacttg caatgcgagg 120
 ggggtatata cattgaggcc aattcagata ggaccgcaaa gcagcacgcg gtgcctgtcc 180

aggcgaagat gaacgcatag acggctcctc cgggaccacc actagatcag acgctgtcaa 240
 ttgcttgtct tccaccacgg gtaccgggtt tcgcgttact gactttgaca gaggtagtag 300
 caaagtgctg gcgagcaagc aaagccatta gccgaggaca taatgcacgc gagggggagc 360
 tcgtacttga atatcccttc ccatgtcgca aggatagtgc agctgaaacc gaggggtggat 420
 agaattccga acgttcgctg ggcggaaatt gtaagagcag gcaatgagag caaagggcag 480
 atcggtcctg gacactctac tctaccttca aaaccgattt cttccccaat cgcgccagtt 540
 cgctgacgtc gcggtcctgg accgtgacgc tggccgcgac cgcaccatgc ttgagctcct 600
 gtgacgccat ctctgtccac ggctgogag tcgtttacct acgcatggcc agacatgccc 660
 gggcatgcct caatttttaa gtcaaagggc cggctcgcat gagcgcgagc atgttagcca 720
 ccttcgctcc aggtcttagt cgcattaata taaaaccct gtcacccct gtctgggtcca 780
 ctgtgtgctt gacggccagt ctcgggttga caccaagctt agcgcaggct tccattgctt 840
 ctttgggtctt gtccggctat cggcgccggc tgcaacgcca tcttggccta aaagcgcgaa 900
 tggcctaggt gggatgaatca tacggcatgt tacgcgtact gggccagacc gctggcgctc 960
 tggaatgaca cggctctttac ccatcggaaga tttagctaga tctaaacctc ggtgggtcgg 1020
 agaatttgac ttacttatgc tctgtatttg cttctttatc tcttgaaagg gtatcttagt 1080
 actacgaagc caaccgagcc gataagtatt gcgctcaagg ctggccacgc ttatagggca 1140
 acacgttaca ctgattttta ccaccgtctc atcctggccg aattctctag cactagtctg 1200
 cgccctaaga gtttgcttgg ctatcactcg ctcagacccc ggtcgatcag ccgtcctggc 1260
 gccagccgg tggccactcc gttacgcgcc gcgtcttggc cagcataggc gatgcgatcc 1320
 tttcatttag tctgctgtgt gtgggctatt agacgatcgg ggcggggccc gtctgtccag 1380
 agtacaggac aggggtcccga gtggcagtct tttgtgaatg attccggcac ggcgagggt 1440
 gggatccttg tccctatgac atgatactgc tttatcaatg ctcacgggt cggcttact 1500
 cttacttttt aacattaaat ggtaagcaat tcctcgtgcc gatgccatgc gccgatgcca 1560
 ttcccagtta atgggcctga ccagcagcca tggggagatt cgtaacatc gacaccgag 1620
 acccagacgt tttcgtgacc acctgggtcc tggtcgttgt tgctgtgctc agtgcctga 1680
 ttcgggtggc gactaagtgc agggcttcc ggcagttgac cagcgatgat tatctgataa 1740
 tcgcagcttt ggtacgtatc ccgcactggc aaagggaacc cgaggatatc taccagtgta 1800

tcttcagtat cttacacagt ctcgtcacag gctctttgca ttgcacagtc cggcgcgatc 1860
 tccgctgcag tagcgcacgg gtatggggac cgattcacga ccgttgcaag tgcggtatttc 1920
 gtccagggtca tgaaggtata tatacggggc atttcattgc tgagtacctg atcgacagtc 1980
 ctaggcctga ctatactgag accgctgcc a gtgccagtac gctgcctcta tctgtatat 2040
 cgcaagcctc tgctgtcca agctctcgct ctcaacattc atccacaact tgaccccagt 2100
 gcacagagac cacctgctgg cggctgtcct gctggccgct atcgcccttc tcggtgtcac 2160
 tggatcatc ggactgctg tccaatgccg cttgccacat ccatgggatt actggtggca 2220
 gaaatgcttt gacttgggtga gtaacgcccg gcgccaattg agctcgtata acacccatcc 2280
 tgccgatgca ctgcaacttt cgctgaccgt tgcgaatctt gtctacagtg cgcttgggct 2340
 tatttctgt ccgcgcgaa catcgccacc gatgtcgga ttatcgtgca ggctctctc 2400
 ctgatctttg gcatccaggc ggcattggaag aagaagctca tgttcgccag tatttctct 2460
 ccagagtatt gtag 2475

<210> 1851
 <211> 3136
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1851

atcatgcaga aatgagacct atgtgacgaa aagttagact tgggtggttac gacctgatc 60
 ttcgatctat tccccttttag cttcatgagc tgtattttat gctttttttt tttcttttct 120
 ttttcttttt tgaggctcta gcttctgtac ttcttagttt agcgtcttct ctcttcttt 180
 ccggtccttt aagtgccgca tggacgccag aatccgtcct tttgtctcta ttctgcaat 240
 tagacttata tattctatca tttccttcc gttttatata tatatattcc ttttttgttt 300
 tcccattact tccaagtctc tctgatcttc atcctttacc tcccgcttgg ccaggcatg 360
 aaccgggatc acgtgcccac gagtctggga agctacaaaa gccagccagg ccaggccaa 420
 acctttgagc ctttgcggtt ctttctccag caggataccg gctttctttc tcacctctgt 480
 acttttagtg tacgatcatc tctcttattt tattatataa tcaatatctt tctgtaccat 540
 actattttcg ggttgattcg aaagctcctg cgtttgcagc aatccgcagc tctgcaactt 600
 accgatccct ttactaatta tcaaactctg attattcaat gtgagtcctc catgccagtt 660

catcagatta gccttcatta cagctgttaa acaatgtatt ctacttcaat tctttgggca 720
gccgagccgc ccgaagagtg attgtatttc ttcgttgac ttcctgaact tgcgtgtttg 780
gcgcactttg actgacgtac ctagagcaca gacggcgcc gagttaaccc ggatagtgcc 840
cctccagcaa caatgttcgc ccgaagcctc aagtcgacaa taacccacc tttctcgtcc 900
ttctcttctc gtcccctctc ctccgtcttc aattgcagtc aatcctcttt catctctttc 960
cgtggcttcc accagtcttc tgcagctatg gtcctcagg ttttcttca cgtccagtac 1020
gtcctctcgc gcaccggcgg taagtccgc gcatgcatac caccataata tttaccctt 1080
cttctcacat ggatgtcggc ccccgcatcc gttgctcgca cgccggctct caaacctact 1140
cttttcatga ctaattcggc ccttactggc caattgcttg ttgctaacgg ttgttttgcc 1200
atgccatagc gcctaagacc ggccgcatca tcttcaacct gtttgacgac gttgtcccca 1260
agaccgctgc aaacttccgg gagctgtgca agaggcctga gaaggagggc tacaagggct 1320
ccaccttcca ccgtattatc cctaacttca tgctccaggg tggtgacttc actcgtggca 1380
acgtgagtc tctttgttcc tgcaattctc gcggatcttt tgttctgaag gctaactatg 1440
agcactacag ggtactggcg gtcgctccat ctacggcgac aagtttgccg atgagaactt 1500
caagattact cacagcaggc ctggtctcct ttccatggct aacgctggcc ccaacacgta 1560
cgttttccta cactcactac ggtaacaaaa caaactaata acaccctgct ctagcaacgg 1620
ctcccagttc ttcattacca ccgttgtagc ctcatggctc gatggcaagc acgttgctt 1680
cggtgagggt gctgatgagg agtcctacag cgttgtcaag gagattgagt ctctcggtag 1740
ccagtccggt gctccccgct ccaatgtcaa gcctaccatt gtcaactgcg gtgagctgta 1800
aacagcgtga acgtgtttta tgaaatatct agcttaaagt gaattcctgc ggatatgagc 1860
tgattgcagc tgtcgcaact tggttacgct gtgaggccat ggtacaatat agccctttcc 1920
caggccagtg taatttagag cgtcgatata accagttttt cactcgtgat ggattcatgt 1980
ctttgcttgt ggtcattgca ctgtagttgt cttttgtggt tgaaggaatg gagcagtcgt 2040
tgaacccgc tttacggaat tatatggtgt tccgttactg tttctttctt agccctgaca 2100
tccaggccta agtttccagt acccatggat atcattcgac gtgtgttcta gcttatcaaa 2160
actaccagtg gttacgatac ggactcctcg cttggagaac aatatggcgg ccttataaga 2220
ttaacctcta tctacagtga taaccgtaca gtcatggcga attttcgtgg ctcattagcg 2280

acattgcagt atcggcaact gcctatttac tttggtaaaa ggtgttttagc tattatatga 2340
 ctattatgag aactaaagtc ctcttggttc tagaggaaag gttgccatcg gtatggctta 2400
 ttggatctga attatatgcg tatgtgaaac atcaaccgca gcatttcgta acagccgttg 2460
 cgtcgttctt gtttgtttaa cgctccgtta gcgataattc ttaaggctca ggtctcggct 2520
 atctcgactg acatcgaatc gtttgatttg aagccaaaga gatagcagag aaagacgggg 2580
 cagcgagggc aataagggtca acgtactcct taattccacc cccaatgtac tcccacgaga 2640
 agatgaacga gcccaggaag gctccgatga agatacaaat aataatgtac ccgttgaagt 2700
 acattgccag caacatcaca aagtacgca cgcgaaactg caacatatgc agcagcgcac 2760
 ggataaactg ttcaataagg cttggacgga cgcggaaggg tgctgctgaa ccgggcccag 2820
 aggctgctgc tggtgccgtc gaggtgttg caggagtctt atgggccccg gctccgttat 2880
 tgccaatgcc aattgcgctg tcagattccg aggctggtga tggggtggct gcaccagggtt 2940
 gggtttgctc ggaggggtaca aggtattgag cacgcatctg ggcgcggtg atgatgaagg 3000
 cgtcgtattc gcgggcatg cggcgagaa actcgaggac tatgacgagg cagatgacgc 3060
 caatgcaaga gcctgcgaac atgccgcgcg agcgaaagtg ccagctgcgg gcaaggaagc 3120
 ctgtttttcg tagacc 3136

<210> 1852
 <211> 1852
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1852

acaagaatga ggttgtagac cttgaaaatc cacataatcg acttcagatc ggcatatcaa 60
 agctacaatg ttcactgtaa gctaccgcaa ttcccgcgaa cgaagcacct tcaatcgcgt 120
 tgtctgcagc gccagcgcaa gtcttgccg tgcatcgcca taatcgaacg aatgcataaa 180
 atggagaata atcacgaccg aaacacagct catcctacat gagacggggg taaacatcac 240
 tcgtcacctt cagaacagaa gtctatacag ccctacagac ggctccgctc cgggttgaac 300
 cccaggaaga tcggcatgga gtaccgcgac gcagggtaat gtagcatcac ataccgggtg 360
 ccccgctgctc ctggcacatt attcgacaag cgctgcctct cagccgattc aagttccgat 420
 gtcttggttat cgtttatttg ccgtagtgtg gatctggtgt ctgggtaata cataatttgc 480

accagggtgt tcatgacgcc gtcaaagtag tctctgtcta ggccaggagt aagtgcaaat 540
 aaccaatcac ttctgtgccg tgacgagtgc tttatagaac tcgattgttg tttttcgaac 600
 caggggaggt gggatcgtct catccagagg tattcttggg acttgaaggc agcaatcatg 660
 tttttacttg aagaggcaaa gagtgggtaa ttgctgggtc actgaaggat tgtggcggac 720
 ggagaagggt tttttggccc actccacaat tcttcagctt catcctttcc ggctgtatat 780
 gctagactga agcagaaagg ctgatttggt gagagcgggg actaggaatc aattaaatgc 840
 acctccactc actagcattg atctgcgaga ttttctctgc atgcgcacaa ttataactcaa 900
 gacctggcat ggcttattac ctttgtctcc agtgccgaat cgattcctcc acatttggtg 960
 aaggagaact cagtttctct gctgcagcca tactggacac agatgtttcc gccgcaaggc 1020
 cacaattgac agtgtaagggt taattcatat ctcaatgtgt gaggatgtag ccacaatact 1080
 gaaacgcacc ggtatgaaaa ggcaggagag ggttgcagag ggtagcggcc ctgtattgag 1140
 aattggacat ttgatattgc ttctgcagcg gttaccaagc atatatgaat gaatacgact 1200
 atctacggat taccatgtac gagaaccggt ctgctgatat cgaaaatata acttgggtta 1260
 gtatcttttag tatcgatagt gtgttgagaa caacagaaac gccgagtttg gccagaagg 1320
 gcacatgcc cagtctgggt aataagcgag agagagataa agtgctctcg cagctttcca 1380
 accaagtata ttctgtggag aagatacggg gccctgccat tatctcagta gtggcgaggc 1440
 aaacatagtg gattctccca agagatacat actacctaga aaaacatggc ttctatacaa 1500
 aactcaggc ttccctgacc agcatccatt tctccgaatg ctaggcattg attgggagta 1560
 tcagctatga tctgtctcaa gtcttccact ctggattgtt cgtccaatcg tcgatagaca 1620
 tgtacctatc cccaggcgac gaccccatcc atccaagcct cgaggctcac agaaaacaga 1680
 cctagtactt ggcatttgca acgttgactt acagcaagca gcacgtgtcg ctgcatttaa 1740
 atttcaccag tcggactggg tatctgagaa gcagtgactt gtagcgccga agcccaatat 1800
 ctagccaatg caaggtgtcc ggagcacagt gctggcgtcc atatagcctg tc 1852

<210> 1853
 <211> 2465
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1853

tgtttcttcc ttcctccctg ggttgcgtag aagcagtctg ctttaattagt cttgtgataa 60
 gaaaacaata tgacgtccat tacttacgaa gttggctcct ctgtaatagt ctaatcgttc 120
 agagtgttga tggacgatat cagtggcaac ctcatcaca aacgctctgt cgtgagaaac 180
 aactagaaca gtgcttggat atccttggag gtaatttgat aaaaagggtga tagacggcac 240
 atccaacatg ttggaaggtt ctgcgacaat cagccgttgt cgtcgttagg tatcgttttg 300
 accaaccgtc taaaaggagc aaatcgggct cgcaaacag agctctagcc agagccagac 360
 gcatgcgcca accaccagag aatgtcctgg tagcatactg ttggcggttca ggggagaaac 420
 ccagaccagc cagaatgctg gctgctcggg attcggcctt gtccgactcc atttctgcaa 480
 gcttcgaatg gatatacttc agcgtgatat cgagtccttc tcgctcatga tcgagcctag 540
 ctgcgtctgt agacgtatct gccattgaag atcgctccgc ttcaatggct gcgagttgtt 600
 ttgagatttt ctacaagagt caactagctg taacattgag gatccgtgaa aactgacctc 660
 ttggtccgca agtagccgct tgcgccacac atccgcatcc aacaccgctt gaagggcagg 720
 agtgtcatca ccagtaatct agattgttag cactatcatg aataatacga ataaacaaca 780
 tacctcctgt tcaacatgga gaatcgaaat atggcttggg atggctactt ctctgcgact 840
 caaagcgcg agcagagtac tcttaccgat accgttctga ccaacaagac catatcgacg 900
 gccgtaagcc agcgttaagg aggttcttga aagaatgcgg tggccaccaa ctgagatata 960
 aatgccttcg agtttgatat ccttgccttc tgcctgggag tcggagccca gttgaagggg 1020
 attgacagcc atgaagaact cttcgtacga catgggttga tcgggctcgt taagcagacg 1080
 agatgcttca tattgcaccg ttttcatctg cttcttttcc tgtttggcac ggatcttgcg 1140
 ttccgccttc tccagcttct tgcggctgac gcgagattcc atcttgcgcg taccaacaga 1200
 ctcgagggtca acatttcctc cagcaagacc cagagtagag gacaagtctc actgagaccc 1260
 aacattaata gcctggctga gcttctggcg gcaaagggca tgtgcctgca ctccgaatcg 1320
 acgccatcgg aagcactaag ggaagaaatg aacttctcta cgagattgag aatggcctct 1380
 tcattttgag cggagaagtc cccagaggca gaaactaaca gctccgtgac catgtcagcg 1440
 gcttctgcca ccggagatgg agcattcgca tcttcaacat aggcccttga cgcgtgagtc 1500
 aaataaccct gtggttgtgt tagtctgaac tcgggcgatt attcgtgtaa gcctgcactt 1560
 acgacggagt actcagtgat cacatggctg aggccaggaa tctgagattg cagttccgcc 1620

tccatgtcgg ttcaaaactt gcactcaaaa accttagatc ggcaatgaca agggatatgcg 1680
 tatctttcag cacctctcaa tgctcctata tcatgtgttg aggtaggcgg ttacagtctt 1740
 ctttgagtcg atttggtgtt gcaagacttt gaagtggcgg aaatgtggag caccggcaat 1800
 tctgcacaaa tgctgggcca acaactacaa ctacacacgc ggaagaatgt cactattaga 1860
 caatacttta actaataatg gctgtgcca tagccactac aaaactatct tctatctctg 1920
 cgagagttga ctgctcgttt tcccagcgaa tattgtagat cccatttggg tcacatgata 1980
 taaagatctc acgtgataat acatccttcc gtcgcacata cgaggtagta ctgttgggcc 2040
 tcgaactcag taacacgtca tccggtcgcc gatctaactc aaccgcactg tacgcacgtc 2100
 aacgctagag aatatggtac ctcaagaaaa attccgcaga gctgcgctac atttgggtac 2160
 caaacggtca gtgccatacg aaagcagaga ctatccttca taggtacta cattgatgcc 2220
 tccatcatcg cagagagtgc ctagacaacc aaaaatgacc attcgtcaag aaagaccgtg 2280
 ccctcctagc ttagtgctgc cgaatatatg cacaggcgaa tcggtggtgt tcgttagcaa 2340
 ggtgatgaaa ccgaggggta gcaagcgcca tgcattgacc agccaggacg gagaacgtct 2400
 ctgcatgttt cgtcgtttga tgtcaaacgc caaagcggcc gcccgatcgc agagtgcgaa 2460
 agtat 2465

<210> 1854
 <211> 3266
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1854

gcatacaatt gaccctcacc gtcttcgacg atgccattga cttctacccc ttgctccact 60
 gcgtcttcat tttcgtctac aggcgaaacg atgatgattg atggggttgt gtcgggagtg 120
 aagaagtgca agttgtcggg gagtgcgacg tactcacgaa gtatcaggtc gccgtcatcg 180
 tcgtacactt cgcccatcag gtcattctccg gtatccagga acctgattac aatgtcctca 240
 aatcgctcac gggctgccgc gttgttggcg tagtcagagt cgaggaagga gatgttttcg 300
 ctgcgtatgt tagctgatcg tcgggggttag ggcaccgata ataagaaggc ccacgtacaa 360
 gaaatgggca aagtatacag cccttctcga cgcaaccaga agagccgtgc acccgcacag 420
 accatccagg acaatctcta cggggtcatc cccaacacc tcgaattgcg ctgagtttcc 480

ggggttaagg ccgtagtcat acacgggtgag tgcattgttg gttacatagt tgtcgacgcg 540
 gtcgatcagg tactcttcca ttgcctcatt gtcagccggg tagacaaact gacgcttggg 600
 taactttggc ttgatttttg cagattcccc ggtaggtatg gggccttttg gctttgggtg 660
 acgctttgcc aaccgtggga tgtcaggctg cttgggctgt ttgcattttc cacggcagta 720
 acggtacggc gttgttgccc ggcgggtaaa atgggttgctg tgctgtatag ttagcgagta 780
 tccagaattg attagaatat tttactaag tggcacctct caagactagc accgaaacca 840
 ttgacgctga ccgtctgcac gctgtccaca tacgtgaacc tgccattctt gttaaagaga 900
 ggctccctgc ataagataaa aggcagggag ctcaaaagaa gaacgattgt aaaaaagggc 960
 aagatcatat tgcgccgctt gctgagtaca tctgttaact ccagagacag actgcaactc 1020
 tcatacttat actcatatct acactactct acgacaccgc cagatcaaca ggaacgtcca 1080
 atgcactctg atccctgcat agaattgttg tctatactga aggcaatgaa gccagcgctg 1140
 tgcatttaga tccttcggga tgaccgatcc ttgtatccat atagaggatc aggccagacc 1200
 cattagctgt tctgggtgctg gtgagtgata tcccaggatt ttctttgagg tttattggct 1260
 atagtgatat agtggcagct gaacttgggc taagacaatt cttaaagtac agaaatcgct 1320
 catgatacct ggacatcggg cagccgcgac gcgatatccc agtgtgcccc aagaaatgaa 1380
 gttttctaga acatcgtgcc ctgccaaacc ctacatataa gtttccaggg tatgttctag 1440
 cgagccgtgg ctgcgtccaa tgaaaacacc ctgataatgc ctcttttctt cacagccgtt 1500
 ccacagccaa tccttgctgt gatacggtc ggctattgtt tcccaagaat gccaccgagc 1560
 ttcagccgca ccttggccgt atagaaaata gtcaggcatt gtagggtga aagacttggg 1620
 ctgcgtcggc cgacggctgt tctacgtgac ggcttggcat tatattcagg atgcattaag 1680
 atttgagacc ggagtgtcac agatactaag gatgtcaccg tatgattcga ttgcataaac 1740
 tgttcttccc ctaggctttt aagagagata ttttcttcag ctagaçagtc ttatgccttt 1800
 cggggtcgtg tttgggataa gctaggggtg cgctataccg ccacgcgcga ccataacacg 1860
 ccaacaaaca ccatgcaaga acctctgctg ccatattttc acatgagaca gattattagt 1920
 ctggcttgaa ccgctgcttg cttcgtatgg agcgaggatt aacttgaagg tcggtgagga 1980
 agtgaacgga ttcggttata accacagttg agatgctcgc gtccccgctt acaagggcgt 2040
 ctttctggaa acttcaatgt agagaagagg cttccgtcag aaagggaaaa aaaaaagggg 2100

agtctgtttg cgtggcagga cagtggggca accagcagcg gtccttctg aaaactaaat 2160
 acacacccta acatgccata cgggttagga aaggccaaac agtgctacga cgaggggaat 2220
 gagcttcacg gtcaacgagg gttcttctta tttataacgg cgatcgcccc aagtgatggg 2280
 ggccattgac cgactagacg cgagatgtaa catcttaggt cttcgatctg gttgaagcta 2340
 tgagagcatc ttcgaatgaa ttgacgcagc agcagagctg gccagcgatt caacggcaat 2400
 ggcggtgtcc acgtttcaag agatcctcgg tgaaggcggtg gttgtgagtt acgagggctt 2460
 tctcctggac atcaaatact caggggaatg ttcggcttgg tagcgtgtgg tttgctcctg 2520
 ctttagttgg caagttttgc acagaaacat agggcttgag cgccgcaggg gacagggata 2580
 gaggcacgtt ggcgaggtaa agcatttgag gggtgaaaag agtaaagctt ggtaagcctc 2640
 ggtgacacat cgtcggagtc acaattgtgc tagagagtat ggcgaggctt atgaggaaca 2700
 tagttcatct gctgggctga gggaggtcat ctacaacctc tggaaacggg cagctcgag 2760
 aatatggtag ttggagaaac aggtacgagg gcactatctt cagaagcaat gattgcaggg 2820
 gcagttattg gagggagagt atgattgacg atgatcattc ttgaagtgcc caagtgtgc 2880
 gatcactggg caaccggggc ggcctctaga gactccaaag ataagtgtt gctaaggcca 2940
 ggcaaccaga tcgggatcgg tatcgcgggg tacgcaatgg ctgcatggta aggttgtttg 3000
 tagtggctta gccaatgaac ccctcatttg gagatattta agcaacgtga catcgtcgtg 3060
 ttgtagcctg cgccaaccgg caaatgcac tccaagatcc tctggctgag gagcccaaca 3120
 atactcaata accaggtcaa gcgatcctct agcttcctaa ctacgcatca tggctttcaa 3180
 cagcgttccg ctaccgtcaa aaagacgccg gtggcggtct tgccgacgag agcctccttt 3240
 attcgggatt ttactttcat atgtcg 3266

<210> 1855
 <211> 4357
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1855

agcttggctg gttaacccaa ttccgttgca gtcgctatgc cccaatttg agccctatat 60
 tcttaacagc atttatggcg ccattttagc cacatcttct tgccctttaa gggggcttag 120
 gcgaccttta atgtcttcgg catcatttga cgggttgtga acacttcatt tgccagtatg 180

tgctcactcg ccctatctca gctcaagcac agagagtcga ccatttgatg cacatattgt 240
 ttgtgcctga tgcagcacag aaacctcgtg ttcattcaga ggtctctgct ttctgaaaat 300
 gctccacaat tttagcaaaa cgacgccacg cgatataggc cataacctgt tccaccacgc 360
 ggggtgtgcc acggcacaca ttgctctccc gcctccttct gctccattcc tccaattaat 420
 ggggtgtctca ttggagggta attcttgaat ctggggccac agccgggggc cgctcatac 480
 gaggtaacat cgggtggagta tgcaagaatc ctccctacgc cggccgagac gggagatgat 540
 gccactagca acccatacag aaagtgcgat tggcgaacac acttctatac atagcacggc 600
 cagaagctgt gtccttgata gaatctgatt gcatgtcaac cttggctttc cgccgaaaac 660
 tctcgtactc gctttacgaa ggactacatg agccttcctt gatctgtggt acaggcagcc 720
 aagagcaagg tgggctgaag gaactccgca tgacgccctt cgtcggcttt tggcaagccc 780
 aattttgccc acagtccgta cccaaaaggg accagcaaat gatatgctca agtcaagcac 840
 catgggttaa ctttctggac tctagcttta cttagctgag ctgcacctgc cctaaatagc 900
 ttcaccgtag catgggagtt cgtatctatc aatagaacaa gcttggatgt acacgaaaat 960
 agacctatgg cgagcaaagg gtgttcgccc gcatcaagct atgtgaccga gcttgccgaa 1020
 gtttccttgt catatatctt gactatagcc caaggagca tctgatgac tgcctacctc 1080
 ttcccttatt agtccctgaa tcatcttcta tgctccctag cagaaataga catgaacgaa 1140
 acttctgact tctgcgccat catcgatgat tcttgagag tccacgcccg ttcctgtcga 1200
 ggcggttcg acttcacact tctctttgag gaattggcgc tatgtatcct gccaatggcc 1260
 tttgtcatta ccttatcccc cattcggata tacactctct tgcagaccga cagtaaagtt 1320
 ggaccatcaa aacgaccaat attaaaaaca gtacgtgctc aaacagctct cctttgtctt 1380
 ttcaacgccg actaacgtgc catgcagtca ggatggcttc tctggggtgc cctgcaattc 1440
 ctgcaggcaa ttatatgggc cctaccaaac gcccgaaata ctcgagcttc gattgctgcc 1500
 agcttgctca tgggatgtgg atcgctcatt ctgtgtgttt tgtcatacat ggagcatttc 1560
 cgcaacgttc ggccgtcaet cttgctcgag ctctatttgt tggtcaccct actcttcgat 1620
 gtcacaagga cgaggactct ctggctacgc gatgataatg actacaacaa gctcatggca 1680
 gtcattgcc a gctttgccgt cgctgtcaag gttgtgcttg ttgtgctcga aggctggcag 1740
 aagagagcta tcttgaaaga caagtaccga gcctaccctc cagaggcgct cgcggggactc 1800

gccaaccgtg tgcttttctg gtggcttaac ccccttttct tcaagggata tttcaagctc 1860
cttcgagtgg aggatctgta tcccctcgat aaaagactcg agtcagcacg attgcgtagag 1920
ttactcgaca gacgatgggc caaaggtact tgaatatattg aattcatctt gtcgttgagt 1980
gctaacagac tttgcagaga atcggacagg caaagcttcc cttctgaatg ttgttttcaa 2040
gactttcaaa tggtaataac ttgcagtggg gcctccgagg ctgtgtctga ttggattgac 2100
gttctgtcag ccactccttc tccacagagc aatggagctc tctgcagaaa aggtaacaat 2160
cgagtcaaca catgttggat acgggctcat tgggtgcttac gtcttggtat atgtcggaat 2220
ggcggtatgt cgagaaggca gcttcctttg ctctaatttg agggctaatt gtgataaaat 2280
ccagattatg atgagtcaac aacagcatct cacgtatcgc gcaattacta tgggccgcgg 2340
cgcagttgta tccttgatct ataaaaaagc cagcatgctc acaatcaaag atgctgatcc 2400
ggctgcgtct atgaccctca tgagcgcaga catcgagaga atcgtccagg ggtggcaaac 2460
aatgcatgaa atctgggcga atgccactga gattgcactc gcaattattt tattggagaa 2520
acaacttagt atcgctgtg cggtacctgt gggcgtgtct atctgtatgt tcctgcgcac 2580
gtccagtgga cggcctgaac caagatctat actaatctga ttgtcaatcg ctagtcgccc 2640
ttgtgtgttc cttggttgca atgtctggcg tcatggcaag gcaagccaag tggctagagg 2700
caattgagcg gcgcatctct tcgactgctg ccatgcttgc atcaatcaag ggtgctaaac 2760
tgcttggcct caagccgtcc ctcatggcct caattcagga cctacgattg caggaactta 2820
ctattttctaa agccttccga aagcttttag tatggaacat ggcatattggg gagtaattcc 2880
caagcaatca gccgtccatc atcgcgcatt cttgctaaca tgtgccacca gcctggatga 2940
ctcgcatctt cgccccatt gtgtcttttg ctgcgtacgt cgccatctca gaaaacgcag 3000
ggcgcgggtc ctcgctcgac atcaatatgg tttacacatc actttcgctc ttcgctctcc 3060
tggcagaccc attcttgtcc ctggatcatg cgctcatggg gttccttggc tcaattgggt 3120
ctttcacacg aatccaggaa ttctcaaca aagagactta tcatgggaac cccaatacct 3180
cccactggag ctctgtcact agcctatccc cgtacaagga gcgtcatctt tcatccgata 3240
cgtccagtac gctgggagtc caagaagatg agacaacagt tgagatgaaa cttgccctcc 3300
catttcttga tactctcatg gtggagagtg caagctttgg atgggatccc aaagcagacc 3360
caaatctgca ggatataaca ttgacgttcc ccggtcgaag tttctccatg attgtcggtc 3420

cctccgggtc tggtaagtca acactattga aggccctgct tggtagagtc ccgcggttc 3480
agggtaaggt gcaggtttcg tccgatagca ttgcatactg cgaccaaacg ctttggcata 3540
tgaatggtac gattcgggag agcattattg ctatgtcaga gttcgacctg ctatggtata 3600
ccactatcat aaaagcatgt gcttttagagc aagacctagc ccagtggccc caaggtgacc 3660
aggctattat tggcagtcgt ggtggtgccc ttagtggcgg acaaagccag agaattgtac 3720
gtttccactc ctcgaatagc caccaaggac agatatgctg ataatatatc ccctataggc 3780
actggcaagg gctatatacg cccggaaacg aattttgctc ctcgatgatg ttttcagcgg 3840
tctcgatgca gccacggaga accacatttt ctgcagcttg cttggagtga ctggactcct 3900
gcgggaagct ggcactactg ttgtcctcgc ttcattctct gtcaagagag tcccatacgc 3960
cgaccacatc gttgtgctag atgaagaagg aagactgaca gagtctggct cgttcggtga 4020
cctcgctgag caatcaggat acgtctctag tttctctctt ccagctccga actgggactc 4080
caccggcgag acggagtgtt ttcccaaacc aaaaccatct cgcacacgcg gtcttgccag 4140
taaagaaggc tgattggagc gaggagaatg tgcacaagca taccgcagc cttgcaacct 4200
acctgttcta catacgcgcc gtgggctgga ttccaacgat aatattcctc gcggccatcg 4260
ccgcattcgt gttctgcatt tccttcccaa gtaggttggg ctttatcctg gtgctgggcg 4320
gtattgccta cgcagtcttg caagtatctg gtttgaa 4357

<210> 1856
<211> 2241
<212> DNA
<213> Aspergillus nidulans

<400> 1856
gacctaatac tactagatgt tgcgatcaac ccattctgct cgaatgtttt gtgcagatta 60
aacgaccca tcctcatcct ccagagcacg ccgactcgga ctgcaacgct ccaaattccag 120
caggcgaaac ggaaaggcag gacgttcaag atattcagct tgtctctgaa ccagcagcat 180
gccatttttg tgtccagcca gaattcgggg tggcatatgt acccctcct ttccgtagag 240
gactagccta cgcctccgat tgcagtggcc ggccaaacat aggaacacca gtgtcatcta 300
catcgtcgtc atcttcggca actactccta ccactggctg acggcgtgca acatcattat 360
ctgcaacaga tccgagtgtt ataactacag acaagggtgc gccagattgg gcgcagaaac 420

tggccaatgc tcgtgcacat gcggcccgaa gatctgcggc ggctaccgct ttacataccg 480
 cggcttatct aatgaattct aatgggtccg gaggcgatac tcgaggattt agtatgagga 540
 gaggtgttat gcggcgcaat aacgggtggac aagactcccc gggtacacca ggtagaagcg 600
 gatcgccagc gctacaagcg ttcgctttct tgacagatag gcgcgcacca tctggacaag 660
 aaacggactc ggctgaagag ggcacaagca atcttgctcc ccctcggaac agttcaagaa 720
 ggtcacgcat ggatgacttg gaggagatga tgatgatgga agctatccgg ctgagtctgg 780
 caagcgaaga agagagggcg aagagagagg agaaggaatt gagaaaagag gccaaaaggc 840
 gagaaaaaga agccaagaaa gcggaaaaaa tggctcgtaa agctggctta tatagcaaca 900
 atgcgagtag ctcggtctct gagtcaccat cagattccag actgcccaag gttacaagca 960
 gctcttcttc tatcatcggc gaagaaagaa ctccgccggg taagggaag gcagtggaaa 1020
 gagtcactcc gtcccagagt aacgtcgacc tgaccgaaac tgctagctct ggtgatgtac 1080
 cgagcagttt cttagagcct caacaacctc agtcacctc gtccctcggc ccgccgttac 1140
 ccaaggagcc ttccaagcct tcacacctgc gtcagtgtgc cagcgcttcc tcatcattct 1200
 cgtctctcgt cgagtccatg tccgaggagc ctgggctctc ggcccagcca cacgaaggta 1260
 ccagctcatc agcggaaacca ttgttcaact tccgcagtct agccgccgtt attggcgacg 1320
 aggacaaatc agatgaagcg gcggaacatg ttgaagacac tgcccctcac acgacatcag 1380
 aagggtcaac ttcgagcgca gcgaacctga caaccgctcc ggctgggtgag tcagctgtgt 1440
 caacttctag tacggccgtg gaaaaaggcc ctacggttga agaaagccaa gaatgctcgg 1500
 tcaacaagga gattgagaca cgggtccatgg aggtcactga tagcaggaat tcggagacca 1560
 catcatgaca ttcagctatc tttcagtctt atcttgaacg tgcttgactt ggttcaccag 1620
 cggtgcaagt catttcagtg tcattccttg gattttcctt gacggaaaag cgagttttat 1680
 ttgtttcttt gtgcgctcat ttgacgactt tgttgacatt ggcataacag gatcggaggt 1740
 ctctttcctt atatacaaca acctatagat ctgagttttc ttatatatttt gtgtgtgtac 1800
 catcggacgg gcatccagac tgcatatggc taaggttgtg ggtgaaaggg ttggtctttt 1860
 ggaatagagg aatgcaatcc atagcggtca ttgagcacia atttatagtg ttcaactctg 1920
 gtcataaatc tagctttgac ccgtactgtt aaccaagcg tgattctaga aggtcctcaa 1980
 gctaccacca tgtcccgcaa ccttgggaaa gaaacacaat aactttacgt tagtgaatca 2040

ctcatcgctt acaagggcat gggtagctat ctggcctaga taggtaggct cccccactg 2100
ctacttttgt acgtggctgc tcttcctagt accgcaagca gttccttctg aagctgggtt 2160
ggagtggaa actagagcag ctctgtctag ctccccctc ttcttttcta tttctatttt 2220
tttttcttgc cctttgattc a 2241

<210> 1857
<211> 3459
<212> DNA
<213> Aspergillus nidulans
<400> 1857

tgtctcgag attccctgga ttgatcacct gctcgacaaa aaccccatcg tccgaattgg 60
accaaagcca acattgaccg gtgtgctcta cgccttcaag gtagttgccg agtaccaagc 120
ccaacttaac tcgaacaagg ttaagcctgg caacgtcgac cacactctag acaagtacgt 180
ccagctcaag aagacacatc cggacgtggg caacgatgtc cagatcgta actggttgat 240
gctaagcatc ctctgtggag ggcacacttc gtctgccaca atgcgcgcaa ccgtatacta 300
cctcgccaaa aacgcggacg catacaagaa gcttggtgca gagctgacca ctgcgaatct 360
aaccatgccc gctcagtgga aggatatccg cgagctaccc tatctcgacg ccgttattcg 420
agagagcatg cggatcaatc ccggaattgc gatgaacttc gagcgtgtcg cgccggaggg 480
cgggtataca ttgcctgacg gacggatatat ccccgctgga actaagggtg gcatcaaccc 540
agctgtcacg aacagggact atgcaatatt tggagaagac tcagattcct tccggccgga 600
tcggtggctg aaacgagatg gtgagagtga tgaggagtat caagagcgtc ataaacggat 660
gcatgatacc tgcgactttg tgtttggagc tggcgcgagg gtctgcatgg gtcgatattc 720
tgccatgttg gagataaaga agctgattgc gactttgtac agcacgtttg atgtaagcca 780
ttttgctctc tggggatggc tgtcatatcg ctaacactcg gcagctgcat ctggctcgacc 840
caaaacatga gtggacatac cgaaatgcct ggtttgtgta tcaacagaac atgcccacatga 900
taatcactcg ccgtaagctc tcggcatgaa actctcggtg aggacggacg aaggttgagg 960
atcgagagcc tttatatact acgaacatcc ctttcatgtg actctcctta taaattgtaa 1020
ctcagatagt agaccttaag cctggcctat ttcactagta gagcactgca aggaaccaat 1080
atcaaattca aggcaccggg caagggtgaa actgtaattc gtactttgct catgcagcta 1140

tatatgtgcc atgtggtcta ggaaaccgtc cccgcgattc tctaggataa ataaatacca 1200
acgcttgact aattacgcat ccatcccccg ctgcaaggac gattccagat cgttgtgggt 1260
gccgcctacg gcgcctgctt cttgaggcct aggctcttct tgcctccaca ctccctgctg 1320
atgctcggga atggggatgt tgcctatattg ctgttggttg gcgagagatt gcgcctgcgg 1380
gggcatgcgc accgattggc gaaaacggac gacttcctcg tagatcatgc ggcgcatctc 1440
ctgcacatcg tcaaccacct caaagtggaa gtcaaagggt gtggggcagc taggctcatc 1500
ggatgcgtcg tgccaaattg caaggtaagg gtgttccaga gcctcttcca ccgagatacg 1560
tgacgaaggg tcgaaagcaa gcatgcggtc gagtagatcg agagcatcgg gattggcggt 1620
cgggaacagg cgctggaagg gcaccttggg cataaagggc aagttacgca catactcctg 1680
ggcacgtggt gagccaatgc ggctcagagt ttcttcgttc ggagtgccca ggtagtgcaa 1740
gatctggttg agctggtcga catagtcgcg acccttgaag aaggggcggc cacctaacaa 1800
ctccgccaga atgcaacctt cggaccacac atcgactgca tcacgtcagc ttggtcaaag 1860
ttcgaaacag cgcgaaggca catactagct tttgtgtagc tctggaaact caacatgatt 1920
tccggagcgc gataccatct tgtcgcaaca tattcagtca tgtaaccggc gttctcctca 1980
gggtcaattg agaaaccacg agccagacca aaatcacaaa tcttgagctc acagtccgca 2040
ttgaccagca agtttccggg ctttagatct ctgtgaagga cattggcggg gtgaatatac 2100
ttgagtccac ataggatttg gtagatgaag gattggtagt gcgcatcggc cagtggctgg 2160
ccggatcgaa taatagcagc taaatcacac tccatgagtt ctggtcgaat aagagtatca 2220
gtaaccagtg agcgacctat aggcgaccaa tgctctaacc ttcgtataga tatgtctcat 2280
tgaagtgtgc cggtcgggga atatccatat catagagaca ggtaatctgc acccagggtca 2340
gcctcatttg tcccgatatgc aaaaggcgtc gatacgacat acattgcggc ggcctctgaa 2400
gtgttgagc agcttgatct ccctaagggc gcgcttgcc aaaatcttct tgctgaagac 2460
gttggttacc tttttgatgg caacgcctc ccccgctcgg acattcgtag cggcgctagc 2520
gtaacaatat ccgtcagtac ttgtgttcaa gttgctgttt tattgctttg attatgatcg 2580
tagctgtatc caacgctacc ccacactatc acgataacga cgaggttgag gacactcaag 2640
cataaagcag aatgccagag aggcacatac caaacaatgc cataagcacc ttgaccagc 2700
tccttggtga cagtataacg gtcataca atgaagtcct gattgaagac cttaaagact 2760

ttccgtccct gtacttgtaa gtcagacatg ccgggcgctg gagactgaga ttcgaatcga 2820
 aacgatcgac cggcaacggc gaagggcagt gttgaaacag cgatcagatt cgaaacacgt 2880
 caacgacaac ggtaagttag agtgggctgg ctcaacggat gaatgggttt cgcaggaaaa 2940
 agggatggaa cgacgaaaag gtgatttttt agcgctctaa ggaagagctg aggcgtcgag 3000
 tctaggattg cggctgcagc gcgattgcca ctgttgagtc cgctgggtgtg gacggctcga 3060
 tgccccgcag tgtcacggag ctgctagcta gctatggcca gttcttgagg ctgcggctga 3120
 gactagaccc gtgagggagc attacaatga aaggttctag gaagaatgcg caaagcagag 3180
 attttgaaca gcgagagtca ttcaggggaa aagaggagag cccagggctg actctcggtc 3240
 gataattgga gacagaaggc aagcgctaaa ggtgatggaa ctgcagcagc ggacaaaggc 3300
 cctcaggcgg gtgggggtgg tgctcctgga tagtggcaca gtgtcttagg tgtgggcaag 3360
 atagttccct tactgaagga gttactcaac aacaatggcc atcagctata ctgcacagct 3420
 atcgtcgtgg tggtagccat tctgttagtc aaagcaaaa 3459

<210> 1858
 <211> 3231
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 1858

acctactgct ctcagcatgc ttcgccgctg cgactgcggc gtctgcgaaa acttcctctt 60
 cggcgtcgtg gagagacgtc ggaatctgtc tccatgagct tcaaccgtca ccgaccctcc 120
 gatccacctt taagaagagc tcgacttctc caaattgtct agctgtgagc gcctcacatg 180
 tatttgctgc gcaagctgaa aaagcaactg tgcacgttta cagcaggag aagggtaatc 240
 aggaagctac tgttccattc ccagagcgca ttcgcagcat tgcagtcgca ggatcgaaaa 300
 atggcgatat cgtggttcta ggtacagagg gtggctcgtc gattttgtgg gaggtgagta 360
 agtcccttgg agtgcttgga tacaactgac gatgcctctc aaggtttgca cgggacgcca 420
 agttgctacc actgcacgc atttacggcc cgttacctcg gtcgtcgtcg atcccagctc 480
 aaacttcatt ctttccggct catcggacgc cagtgtccat gtttggtcgc tagttgatct 540
 tctatctttt acaaagcctc catcagggcg caaccagcag cctccaaatt cacctattcg 600
 cacattctcg aatcaccgtg cagcagtcag tgctattgtg gtgggacaca gcaccggtag 660

atacaacatt gctatctctg cggcccaaga caacactgcc attgtttggg actatcggac 720
 cggtcattgtt ttgcggaatt tcctcctgcc ggccagcgcg atctcccttg cccttgaccc 780
 ggttgataga gcattctatg cgggttatga agatggcagc gttcagtcgc tagacttcta 840
 caaggaacaa tccattcagc atcctcttca caatccgtca ctacaggcta ctccagcaca 900
 ggctcctct gaagaccgct ggctcccacc ttccgctgac agtggcgag ccatgcggtt 960
 gaccctttct tacgacggta tgactttgct atcaggccat gagaatggca aagtgtactc 1020
 ctggaatgtt ggaagacgaa aatatgcac aacagtagcg gacttcacgc atccggtcac 1080
 aaacattatc atgctacctc ttgaaggcct atatcaacag gcgacaaatt taaagagagt 1140
 agcgcataca ataatacagc cgaaatacga ccatacgctt ttagagaaca cgcaggctgc 1200
 aggtactgtt cctgcagact atgagtttaa caccatcta cttecgctcat cctcgcttag 1260
 tgaagcgct gctgagtcag actggttcat ggacgccttt actactctt cttttccgc 1320
 atccttgata gagcaaggtc taagttagct aactgctatg tccttacctg gatcggatac 1380
 tgtctctgcc ccgtcaatga acgtggcaat ggacgttgat acccccgga aggattccca 1440
 aattgcctcc ttggaaaacg aaatcgctac gctcaaacag aaagtctcag tcagcgatgc 1500
 agtcggcaa tccagcactg acgaaatcac gaaactcgt tcaaacttg ccaacctcca 1560
 cgatcacatc aatgaactca aagcgaagca ggagcaatca cagcgggata ggatacggcg 1620
 acaagccgc agagaggagc gggcaactcg tcgacgggaa gcctgggtcg cggcggagaa 1680
 gaaaggcaag aatggagacg ctgtgctgcg tcggatgaaa gctgaagacg agtctgagac 1740
 gagcggcagc gacgatcaga gcagtgatga gcaatgaaac aagactcctt ttttttcat 1800
 tctacgtatc gatgttctc atgtctctat tacaactatt gttatattca ggatggctc 1860
 gcatgtttca agagggcatg ggtcacattc cacggcgcaa cgggctaaaa gtttgaatcg 1920
 aggatagagc ttcaaggagc acttggttag catatgaaca gtaacaatta atgttgcata 1980
 cagtcaaatt cggtaataac cgtggcacta ctctgtacac ttttaccagc gctgttctac 2040
 cactctatcc ccgtccagct cgagtcagca ctctggatac cgggctgtac attcctgagc 2100
 tgtttcagtg gagctattcg gggttcgga aatcatataa tagcatcatc tccatagct 2160
 caattagttc caggaatgct tcgaacccta accaagaccc tctcttcaag ccataaattt 2220
 gacggtgttt ggaggttcgg ctgttcagg cttcagtagg gattcattga agagccgtca 2280

agtcctatac acatagccgg cgataacctca gtgtatctat aggctattat atacagtaga 2340
 aaaccatgat cgaagctgaa gagacaacgt taacctctaa taccgcgtcg aaccctcatc 2400
 ttgtacctgc tcgccctcca actcctgtac aatcttaacc cccgaactag cccaatgcg 2460
 ctccgctcca gccctcaaca tcttgataca atccgccgca gagcgctactc caccactcgc 2520
 cttaaccttc gtccccttcc caacagcctt agcaacctca tacatcaacg ccacattctc 2580
 aacagtcgcc ccagccccat taaaaccogt actcgtcttg atgaaatccg caccagccaa 2640
 gcacgaaata accgagccag caatgatttc gtcacgcgtc aattgcgagg tctctaggat 2700
 aactttcagg ccaactggcg caggggcagc attccgcacg cccaagatat cctcgtagac 2760
 ttcaacatac tgctttgtct tgagcagagg gtacttcagg accatgtcga gtcctgtggc 2820
 acctaacgag atagctttac gggcctcgtc ttccttctca gaggtttcgt acatgccttc 2880
 atggaagcca acgacgcagg cgacacctac ttctggcgca gaggcgaagt tccgccacgg 2940
 cttgctcaac gtgggctaag cggacgcata ctgttgcaaa ttgggtatttg aggctttgtg 3000
 tgcagagctc ggttatttga tcntggagtt gctgtcaatg ctattnggat gtggtcgatg 3060
 nnntgcgttg actttggttg ggcgtggagc ttgttcttg attanggatt ctgggtagtg 3120
 aggcccagat ggaggaaatc aaagccctcc attctggttg ggtttgggga tagacatcgc 3180
 gtgctgtagc tgtccaggtc tctaactcag gcgagagaaa gtaacagcag a 3231

<210> 1859
 <211> 5196
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1859

ggagcttcct agcaatattg gatgatagcc accctttttt tatcgattca aagattctgc 60
 accaatggga caggagtaca tatgttgggc cgttcgaggt aacgttgaga ggaaagacgt 120
 ggcgttcaag gtgatagcca gagaaacagt actgagcgag gcagaatata ttttacgacc 180
 atcatctggt gttaggtctc aaatgcaata agtacacaaa aaaataacca cgggagtttt 240
 attaagccgc gtgatatccg attacgtact tgcataattc tgacatattg cttgtggggg 300
 aagaaaaacc tctagagaac atctagagga cacgcttctg caccatttgt atatcgtgtg 360
 gtgacgggca tcgcaaaatt agtcggagat tcattctata cacatcccct gggtagctac 420

tacgcaccgt tgagattatt ctgccttcaa caccagtagt tattggaagt cttcctgtaa 480
 ggctgggggc tgagattatg ggaattgagg aactgctttt ataagcttaa caagagacta 540
 caagagctca ctttttcctg gagcccggtt tacggtaaaa ggagttggag aaacaaaaga 600
 atagagaccc aacgagtact ggcattcacgg gaattgacct ggcaagagac gaatcttcgc 660
 agaaaggtta taaggattgt tgacctccgc tactatctca tcaaagaacc ccagtcgcac 720
 cattcccacc taagcaagga aaccctaatt gcttctgtct acacctcctg aacatgggat 780
 cttggtcgat atcctcatca ccaacttcga gtttgcaag ccgtgctttg actacgatgc 840
 tgggcttcag ccagggcgca tacagtcccc gacaggccct cgaagagaga aaatggattg 900
 tcaggcattc gataattatt ggatgcagtc tccagagacg cgttgtagcg tggggtctct 960
 cgtgcataga gcatcattgc aattgcccga gagagaaaaa agtctccgga gagaagaccc 1020
 tcagttgcag ccagatctga ttttcgcgtg gtgtagttta gtctggctct gtctaggacg 1080
 gcgctgctat cctcaaagac gtcattgtaga aggagcagag gccatgcatt tcccgcaatg 1140
 ccatgacaca aacctccgcc tttcgagaga agacctgct cccacacgcg atccgtggca 1200
 agacatacgg cgcggttcca gttcggttcc cagtgtctta gaaccagctc cgtgtgcttc 1260
 aaggcgcaac caagaaggcc caggatggcc ggcgcccat gacacatctg gaccagcagt 1320
 gactggcgag atgaagagcg gagtgggac ttggttggtta gatggccatt gtgcgcgata 1380
 caaatcctgc atagcgcgt gatcgttcc ccatctccg gcagacagtc atccagttcg 1440
 tccaagttgc aagcaagaag aaccggtatt atccgcctg cttcagtcag taactgaagt 1500
 ccgaaggtct caaaagtact tacacaatcc atgagccctg cagaattgca ctgttagcga 1560
 gggctaaccc ttccggcgtg ctacttacca tccaactcca tagtaccag gttccatgg 1620
 ccacattaat ggaagggcgt cgactttgcc atggctctc ttatactttg cagccccttc 1680
 tctgccagca tcaatgattg aacggacaat ttcaggaatt tggctaatta ttggttgga 1740
 aacttccatt tgcgcattgt gaaggctcag cgccgctgcc ctgatattca gaagcgcca 1800
 cagcagccca gcacggccga agagaatctc atccgcgcc aggtcgtggc catggtagaa 1860
 ggagtgga ccatgactta gtgcaaatg taccgatta tcaaggcact caatatcgtg 1920
 agcggagata gtttcaaccc tccagtggc gcatttatgg aggatcctca gtacaacagc 1980
 agcgattggc gatctagatg ccagaggtga gagacctcca atccgcagag gaatatctgg 2040

accacgagtt gggattcgcg ctctggctag acttaagaag tctggcaggg agctagcatt 2100
 atcttctagg acacgctttt gttgtgctag acgaaggtat gcatcagcaa ttcctataaa 2160
 atgcgattag gacaccaa atgaaaaggc tgctatgcta ttgaaggcca tgctccttaa 2220
 aaatttaaat gaagggaaag atacctaggt ctccggtata caccgccgg ccatcact 2280
 cgttactcgc tggagcagta gattcaatga cattgacgcc gttgcaaacc gactgctga 2340
 ggacctgaag tgtccggcgt agagttgcct tctcgatatg gggcaactga agatcgttgc 2400
 tgtaatactg cgggtattct gacatgttga tatgaggaaa tgtcacttga aagcggcgca 2460
 ttgagccgag tccttgaacg tgctattgcg tattgaggag gctgcaggca tccaaccccg 2520
 cctcagctgt acctatgacg tataaggcag caacatgact aaatcgcagg gatgaaggct 2580
 cggcaagtaa tctatactga tcaatctaac aaaactgtgt ataatattha aacgcgagtt 2640
 acatgtgaat tcccttaatg cgtttacctt gattgatatc ctgatcaaaa gaggatggct 2700
 tggctctccc acagcccaga atctttggcc cattcatccc accaggccta cactatgtca 2760
 gtacaaagct acttagaaca gaaaagacga ctcaccagct cgatgccaga ttcacaaat 2820
 aggccatagt catacccaca acttccgccg cggtaggaag agtgataagt ctctggtttt 2880
 gtggctccct gttcaccgcc agcttggttag ctccggagca tgcgtccaa tatttggtat 2940
 actcttgaag tttcatcacc agaatccgat gcgttcttcc aaagagaaac ggagacctcc 3000
 agtgcttga tcagagtgtc agattcgact gctgaaaact caccgcactc tcttcgtctt 3060
 atcgccaatt caagagcgat ggtcatggcc gcaggcgcca gcatttgcg tgttcgagag 3120
 taggcgtacc aggacggctg tagtagtctt tggtagtcta gcaatgccag agacgatgtg 3180
 aggcagcgag agcgggatat gtcgcccggc tggtaggttg cacgttttcg gatgaacctt 3240
 cgatgcaggg tacagatgct ttggtggtac atgcatgcca gctgtaactt tgaatagtcg 3300
 gccggagtcc ggggtgagct gtattttgcg tcattcgcat ccactctcat atgaatcgga 3360
 acatccgacc acaccttggc caacaactga tcgatctcaa tcaccttggc atagtcgtcc 3420
 gggcaggggc cgtaaatgaa gtcaataacc tcgccagag cgtgaaacac gcgtcccttg 3480
 ataatcagat acgaggctgc cgttgggttcg gacagtggcc ttggggcgcg gaggccttta 3540
 atatcttctc ctagttccca gtcgtgaaca ttaagcggtt cctttgcgtc cgagttaatt 3600
 gctggagtca tccgcgggaa cccagacaga aacgacgcca cttcatccat gctcttgaca 3660

gaaagccata tccgtcgtct atattcacct tcgatggtcg agaaagcagg agtatgttca 3720
gggtcgcggt ggtaccccat atttactgcc gcccttaca taactcctgt cataatccac 3780
aagccccggc tattatcgtc cttcctgtta agttcggcgg tcgcattgaa acgcaatgtc 3840
tcgaccgtat atggcaagca tttggcaata tcaccaagta atagacactg tgatgttcgt 3900
agtcggtaca gatggaatcg ttctcagcc tctttttggg atccttggtc cccaagctgc 3960
atggcgagag ttataattcc aaggatggag aaaagcaatc cgatccagat gacattgctt 4020
tgagacggat tggtcaggtg ggtgttatac tacgacgtca gattcgtacc acaatagtgg 4080
agggcagcca tacctcccga ataaaggttg gttcatgtat gatggctacg aaacaatgag 4140
ctcgttctgt caacaatatg cgaagaactc acgaggaacg gatatgggaa agttctttct 4200
atcgaagaac cactggatga gtttactcat ttcatttctc ggcggcaggg acgacaggat 4260
ctctaggata tctacccgct gaacatggcc gaaaagcaga ctgggtcccat caaccgagtt 4320
cgtcaaggta tgcgagacaa ctgattcgtt cgggggctca tcccatgccg ccttcagtgc 4380
gctaactctg gctagttagt gtggcaacca agaggcacgg gttaacgaac ttctcgcagc 4440
acatcttgcc agtcgtccgc tgggttatac acagaatgtt ctccgtccaa gaaggtcctg 4500
cctacgctag ttgaactacg agcatctaca cctctcagt gctgaagagcc actggagaag 4560
ccattggaag atggagcaac ggttgacggg tcaactctgt tgcagctgat aagtcgcttg 4620
accatctcct ccaagcggtc aatccgttcg cgcacgagt ggccattctg ttctatacta 4680
gaagatgaca gagctccatg tgcgatctc tgaaagatac atgctgactc ctctccccga 4740
gcagtacaat tttgacacgg cttctctcta ttacatttca atctggtttt gtcagcacct 4800
gacgtgttct atgggggtta ggggtatcta gacttctga cgcggcagga ttcgcaggac 4860
agagggatcc gccgccgacg tcgcttagca acccggttt ctgtggtcag agtctgcatt 4920
taggtcgtcg ttgagcttca gcgggggtg gacgaagcaa gaatagtggc acgcccgcg 4980
ctgcgtctc tccgtatcga gaaatttcgg gaatacatat tttccggtgc cgtcatatca 5040
tctgtctagt gaattgcagt aaatgaagcg tttttataag tagcatgatc taagcctgga 5100
ttcaacagtg actctgtgtc ctttggtatg tcacgcttta cttttgctta ataacaggcc 5160
aatgagagac aatgtgtata tctgactgtt tggtac 5196

<210> 1860
 <211> 2533
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1860

```

aatgtacgaa acatcttctc tatatcaata cgtcaactga tggtagagca actaaccccc 60
tgccaatctg tttccatcgg gtcaggctct aaggaaaccc ggcaaaatgc gaccgctgct 120
gaagatatcg aacaggaagc agttgaagca atgttataaa cgcgttctcg atatctcaga 180
tcgaatcctg tcgttagtgg aactgatctg gatatacctc ggcctggctc tctatatgtt 240
cgcgaccggc atgagtctga tctaccagac gcagcacgag cattctacga ggctgcagct 300
aagatcacag ggatatctct ttccactctc gtccgttggtg tctccaagc agagcttgag 360
attaccaaat ggttgagaaa ccaaagacgc atcaagcatt tcgccgaacg ctcgatgcag 420
gtagtcgaga attcggatgc tggtagagatg gaggagttaa gcgagcagga aatgccctaa 480
aaacttgcac atttaatctt tcttttggca gtgaagtcca aatataatct acaccaacaa 540
cagagtcata ataattgatc atccatctct ttgtattcct tgaatctgag taggttaagc 600
ctcgatctgc ggtgtatagt gcggaacaaa tgtaaaatgt ggggaacaaa ttaggcctga 660
ggccgcaagc actaaactag tagttacgct agggcctagg gtatgccccat tcacgtgcac 720
tcatccaccg cttgctaagc gagacactcc attttgacgg gcattgcctc attcgaaccc 780
tccaagcgcc cgattgtcag ccagcaacaa cgaaaaatcg cagccagtac gtttaccctg 840
tgatattaag cagtgatgct actctcttgg aactgccagc taacatatct tttttccgcy 900
cctttctagt gcagatgtag gtcttccgaa catgccatta acccgttgc catccacaac 960
tctcgtctat cgtcaaccga atttacgcaa taaaagaatg ccggaataatc gaggtgaaa 1020
gaagagggct atgaatatgt gctgactgtt cttctcgaat agtttcgtca agaccctcac 1080
gggtaagacc attacccttg acgtcgagtc cagcgacacc atcgacaacg tcaagaccaa 1140
gatccaggac aaggagggta tcccccgga tcagcagcgt ctcattctcg ctggaaagca 1200
gcttgaggat ggccgtaccc tgagcgatta caacatccag aaggtatgag gcctgggtcta 1260
ccgattgagt tttgcgcgtg gtatagattt gcggttgagg aggcggaagg acggttatct 1320
tgtgtcatag ttttgacgcc agttagccgc tcctagttag aaggagaagg ggtgtgtcgc 1380
aaggagaatt tgcggaagaa ttttgattgg gatgatgacg gttggctgac tatgcctctc 1440

```

tcaattttat aggagtccac tctccacctc gtcctccgtc ttcgtggtgg tatcatcgag 1500
ccgtcgctca aggccctcgc ttccaagtac aactgcgaga agaacatctg ccgcaagtgc 1560
tacgtacgtc tacgggatta ccactcgact cagttccatc ttcgacgaag gatttgagaa 1620
ctaatactag aataggctcg tctccctccc cgtgctacca actgccgtaa gaggaagtgc 1680
ggtcactcca accagttgcg ccccaagaag aagctcaaat aaacgactcg ttcatgctta 1740
cgtttttttc tgcgttgctg gtgcggaagg gtgtgattgt gatgagccgg attgtaacgc 1800
taaaaagggtt ctttttttta caagcggcgt tgaaatgctg aagaaacatc agaagagctg 1860
gagtcgatac attttacatg gctactctcg gaaccagttg cagtcaatga aacaattgta 1920
aaatccagtg acccctcaaa tcgctatact tgtcttgtag ataaatgtaa cagattacag 1980
tacaggtgag gtgtacatgg tgaaaagact tgaaactgca caaattggat acacgtgctg 2040
aaatgctgcc ggagcaattc aggggttcgga tatcttgaag ccaccaaaca atctggacag 2100
atcttgcatc cagaacatgc gcttgctcgtg gtcacatcgg tcgtccttat catcatcgcg 2160
acccttctca ctatcacctt tcttggaaac agggcttcca tggcttcatt cacgtcagtc 2220
acacgagctc agaaacacta gttgtgggga aggggaaaac tcacggaag aacaagatct 2280
taatcgcaat cgcaaaccce gcatgcaaca caatgaccaa tatcaacagc gcccgactag 2340
ccttcgcatc cgtcgcacta agcacaggat acagatttct aagtaggaaa aagaccgtcc 2400
atgcaaagcc aacccccaca agcgcccagt tcaacgctgt caacggactc caactaacia 2460
gcgcgaccgc aatccaaaac aaattcgagt acccgtagag cgcccagcac tccaccagat 2520
cagctgttga gct 2533

<210> 1861
<211> 1902
<212> DNA
<213> Aspergillus nidulans
<400> 1861

gggtgatgaa aggatatagt aatagaaggg attaaagagg gagatgagga gataaataat 60
ttactaaaaa agaatgaaag ttatatataa tataggatat tgtgtgattt atttagttat 120
agatatgtaa tatgttatta attgtttata tatatagga aaaggtggat tgttatagga 180
aggagagta aaggttagat gggggtaaag tgtaatagag ataagtagat gttaattaat 240

agtaaagggg gtgaaatgaa gagagtaagt gaaaagatag tgagtaagta tagtatagta 300
 tgtagatggt gagaaaaggt agggaggtat atgaaattgg aattatagta gaataaatat 360
 tgtaaataatt aaaaagggtta aatggggatt gtgaatgaaa gaagtgaaaa ggtaagatta 420
 tatttagata aaaggatcgg gataaaatgt agtataaggt agtaataaga tgataggtat 480
 agataatata gataaaattg agttgggata tataatagtg gagggagaat ttaatgtata 540
 aagggtgtga tgtgttaagt tgtgaaagtt ttgtgtaaatt attgagtagt gaattagtat 600
 tagttatatg agtaatagag gaaatgatta tattgtgaga aattgtatag aaaattgata 660
 agaaggtgaa taaataatta gtaaataatat gggaagcttt atatgaaagt agaataattta 720
 ggaagaatga actcaaacct ttagcttatac taagagtaag ttattccat aaagaacgac 780
 ctctcaatt tgaataatgg ggctaggatc gatttttcca tccttcaaac cagaatgcag 840
 ccacccatgg aagacctcct tgatgtgctt actccgcgcc acctgtcca tggagggaaa 900
 gttgaaagta atttgggtgt tatcgagagt cggatggcct tcggggagaa caggcgaatg 960
 cgctacctta gcaaaggcat ccccttagt tccctttaga atgtctaacg taggctgcag 1020
 ggcgccatcc acgacacagt gcgcggtgtg caagtataca ccaccttct tcacggcgtc 1080
 gacaatcttg gagacaacgt cgctgtcttt ataatacaag accgcatcag ctccgagctt' 1140
 cttactagg tcatggtgct taggactggc cgtagcgtag acagtaaac caagggtctt 1200
 ggctgattgg acggcgaatg agccgacact gctagacgcg cccagatta ggaccgcttg 1260
 cttgtccgca ggagtatacc gagtatcgag cggaataccg atcgtagtcc aagccgttag 1320
 agccgtcaag acagccaggg ggaagatggt gccttcttca aacgagagat tgtctggaag 1380
 ggggatgacc gcttcggact gggccagggc gtatttttgg aaggctccgt ggtcggggga 1440
 gccgttcttg tagaaggacg aggcaaaggc aatgactcgg cttccgggac caggcacaga 1500
 gcctgccgtg acactcgggc cgagtttggc gaccacacca gctgcatcac ctccgatgac 1560
 cgcagggtag attggcaccg gtggcatgcc atagtccgc tggtataaat cacaggggtt 1620
 caaggccacg gccttcactt cgatgaggac gtcgttggga ccaggctcag ggggtggccc 1680
 cttgccgacg gccaaaggac cgccgggctt ggggagaatg gcagcatcgt gctcggcagt 1740
 catggtggat gttggacgaa cagactttgt gattgttttt gggagagtct tccacctgaa 1800
 tatgcgaagc attaacggag aaagggatga tagatggtg tgtgagatat atagatagga 1860

agtgtccac caccggttta ttcgtggca ttgcttgctg ct

1902

<210> 1862

<211> 2254

<212> DNA

<213> Aspergillus nidulans

<400> 1862

tgtcctcagc aggagcgaat ccactgccag ccccgagaat gacgttcgcg cagttcctga 60

gacgggcgta acagtcgaga atcggtaaat ggaagtcctc acaagaatgg tgtccccctg 120

cacgaccccc ggtccattgg atcccaacgg ggagtgtcgg atattgcctt gcgatggtaa 180

ggacgcggtc aattgcatca acagaccccc gtttgaacca aatatgtgaa attgccaaca 240

tgtcaatcca ctcttcaag acctcgggcg atgggatccc agcgccgacc gttatcccat 300

caattggcaa gccttcttcc ataatacaggc ggcgcaacac ctggatctgc caggaaagtg 360

ctttggggga agcatagatg acattgcagg tgattgagcg atggggaggg atggacctcg 420

acagctgccg gagtgtgttt tctagcgttg ctcggttgta atagccacca caggcaaatt 480

caacatgata gtccgcctga atgatagccg ctacaagctc aggtgagcat gttgttggcg 540

tcatccctgc caccataaca tgtggtgttc ctagcagccg cgtcattttg gtttcaatgg 600

atgcatgagc acttccctca gctgctttcc gtagccgagg gcgatatttg cgacccagct 660

ctttaccaag tgggagagca aaagcagaca gattaagcaa cgatagattc gaagccatag 720

actggccgga cagattaacg acgttcatac ccgttccctc caaacatcc tgcaccaggc 780

tcccaacagc gccaggccca aatgagagca catgggtagc atcgttcatt gcccaacaca 840

aagcgggcca gttaactcgc tcaacagtaa cggactgtat gaggggtcaaa agaatatcgt 900

gcgtgccata atcctgcagg ttccggagag atccattcgc ctggcagtaa actggtatag 960

cgagatcggt accccgcaag cgaaggccgc caatggcatc agtcactctt agctcgactg 1020

atgacagaag agaagagtga tagggagctg aactggaag gaactggaca tcgacgacgg 1080

accgacgcag gggaaaggga acgaggcttt ggtcgagctc gggcgatgcc ttgacgctac 1140

gaagtgttat gcatactcct cgcagagcat gtggtgtctc agccagaacg aacttgttgt 1200

ggccatttat aaggatata tagagcgaat ctccaccttg gtcgttgagc tttcgaccca 1260

gccgctccaa atgattaatg tctaagcctg tcacactcag taaatgtgac ggagcgcctt 1320

caccattttc caggcagtcg ataacttcat ttgcacacag aatacttctt ggagaagcat 1380
ggtgtgactc cagcccgacc caaaacgaca gttgcagggc aaggtcagcc gcgcggtaga 1440
aggatggcca tccgtgggtca gtgtgagata tggcgattgc ggcgccaca aatacacctt 1500
gagagtgtcc gatagctccc tggagctttt ggcggactga ccaggggtcca gctggaggct 1560
gtacgcagta atagcatagt gtaggaggct cagcagagtg ttgattggaa agctataagg 1620
agacagcgcc aaatcttccg gcagtgggtgc ggatgcagca gcgtcgttga gccaggcctg 1680
taattggaac ccgcgcccag caaaaaatga cgatcgggtg gggatcgtg ctagtgattc 1740
tagacggcgg gcagaagagt cgagcaagtc ctgtataggg gcgcagtcg cgtaggcgtg 1800
cgagagatgg actaactcat cgagtcccgc ccaattactg ggcccttgcc caccaaagca 1860
cgcatataat cgtgataggc cagcgtcgac agcatcgaga aacgggtgat gagtcattct 1920
ctttacaggt cgtcaaactg taggctaaca gatcagagcc atggctggga atgagcaagt 1980
atatcgtgta gccggggacca ccacctatac gagaggggga gaaacaagtc agcgcagggt 2040
cggcttacga gcaatcggag atcgggcgtg gcggttctca agtttacata tcagctgttg 2100
ttcttcagtc tttcctgcag aactaggcca taacatgaat acagccatgg cgatacgaaa 2160
catggaacag acaattgcct acgagctact gattgagctt ttatcgtacg tttccttata 2220
ggtgttgagc aaaaaactga tcagcagcag ccat 2254

<210> 1863
<211> 2639
<212> DNA
<213> Aspergillus nidulans

<400> 1863

attggagtta ctacaatagt tcccatttga ggaattagaa tttctgcaag gtgtagatta 60
attgtctggt taggtggctt gtccatccaa cccgcgttat tcctcaaate aagccctcca 120
ggaactgatt cagaatatta ccatactgca ggaaacccca atacaacgtc agagaatatg 180
tgctttgatg gcttcaatac gagaggccca atactgaggg taggtatact ggtgtagact 240
cagtatacaa tatacgaaac tttttacact actccgtata tctatcccat ctagccctgt 300
ggatgctgac tatactgtga ctcttggtat tagctaagtt ttacttcatg agacaagata 360
taactggatt gtttcatgat aacaatccca tggttaataga aatgggtcac tgtcaatcac 420

cgattgctct ttgctgtatt aattttccta aatttagtat acagtgtctc attccttaggg 480
 tggcatgacg ctgtttcgtt ctgtatcaga catatttcag ctggatatat tatctcctag 540
 tcccggagaa actctgcagc atttaatcca gaaaagagcc ggtggctaag agacgggctt 600
 cagtggactt ttaatcctca tctttcccggt ctacgcagca cagtgtccag atcccgtggt 660
 caatactcga catgcgcgtt caatcatact tgctgctctt cagccttggt ggccgagctc 720
 tctgcgcgcc tcgtgagcac ttcaagcgca ctgccagaac gtctgctccg gccggctgtc 780
 tcaccgttgg aggaagcggg acctactcga cgatcggcgc tcggtttgca gctttgggct 840
 catcctcgtc tgaggcctgc atctacatat cagccgggac ctacaaggag caattgacct 900
 tccaatacgc tggggcgttg acctctatg gcgaaaccac ggacacgagc agttacaaga 960
 agaacaccgt cagcataacc catacgattt cctcacctga agcagggtcc cttgttgcca 1020
 gtgcgactgt caatgcggcc atggataact ttaccatgta caacatcaat gttgtgaatg 1080
 ggtacgggaa gggggctcag gctgtcgcgt aaggattttt tcatttgacac ttcatcttca 1140
 tctccaactt ccaatttcat acgattttac ttattttatt tttattctaa cgaatgtatc 1200
 aactgctgc tgacgcctac ttttgcagac tggctgccag cggagaacgc cagggttact 1260
 atggctgcca attccttggg tatcaagata cgctgtacgc acgctggggc gtgcagtact 1320
 actccaactg ctatattgag ggtaccggcc tcttaattct ttttctactc tccgggaaca 1380
 gcactgaaca tctacagggg ccgtagacta catattcggc gacgcaagcg cctgggttcgg 1440
 cgaatgcgac atcgtctcca acggtgcagg ctacatcacc gccatgtcgc gcgagacagc 1500
 ctccgatccg gcctgggtatt gcttcgacca ctgcaatatc tacggaaaat cggggctgga 1560
 cttgaccggc gatgtatacc tcggacggcc gtggcgcgtc ctgcgcggg tcacttatca 1620
 gaactcggag ctgagtgata tcatcaacgc ggctggatgg acgactatgg cagaaggagc 1680
 cagccactg tactacgaga tcgggaatac gggtgacggg gcagacacgt ccaaaaggct 1740
 gtatcttagc gagatcagtg cggctgtcac caaggctacg gtgctgggga gcgactggac 1800
 ggactggctt gactggagct attgagatga gtctaagaat gattgcgtgt aagatgaatg 1860
 catcctgcaa gaaagtgaga taactaagcc acgggaaact gtctggatgc cgtaattacc 1920
 ccgttcaatg gcgttgagga tcattcccga gactctgtcc cactgttttg taggagcgtc 1980
 acgatatgtc gtcaaagcca gaggtcttta catctaggta gcgtctgcca gccctacgat 2040

ggctccggtac aaagcatggt ggtatacact atcggctctc tgacattatg gctttatcaa 2100
 cgcaagggtta ccattcaaat gtgaatacag gtcgagtcag ttcaaggggt aatgcagaca 2160
 taaatcagat attcgcttga tgaatttcct gtaagtgaac cgccgaagct tcaaaattgc 2220
 tttagttctg taaggcaaga atgacaggac ccctggtagt accacagatt agagagacaa 2280
 gggcgaagat cctgtttcca cctggcgcaa agtccagggt gagggactga ttccgctata 2340
 caacgagggc ttgcaattgg atggacgtga tcctgctcta tattttaacc acggtttagtg 2400
 gatgcttgcg gttggaatag tgtagacagt agaatggcgg gtaggtaacg gaggacacct 2460
 tcgcaatata cacgggtctg agtcctctga atacttaaac tgaatatcta aggcttctat 2520
 aaggctctgca aaacagcaaa cgcccttata tgtctaatac atggcgttcg ccaggctcgg 2580
 gactggagtg gaggaagata tgggttcctc cgccgtgccg ataacaata ttactggtc 2639

<210> 1864
 <211> 2585
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1864

aatatggtaa cagctcaggc tcttttctct atctcctctt cttttttccc cctctcttct 60
 attgacaata gatttgctgc ctaaactctt gaataggctg cgtttatatt atccctgtca 120
 cacttaccgg actcgctgc gtcagagtga gtctgagttg catttgcaca cgcgtctcat 180
 tatcgtgcat cgcgcctggt tgcctttctt ttcttttctt tattttcctt tcttccctct 240
 ccgttgtctg tccatttcca aaaaaaaaaat attagattct gagtatgtag ttatttgagc 300
 ggcgcaagac tatagattgg agctgaaggt tagggtaagg ggctagtggg tgaggttgga 360
 cagaattgaa tttactcaga aaagctaatt aataactagc tgatgcgcag gtggctctgcc 420
 gagcacttgc aatcagctat tttgcttata atccgttgaa atacgctgc actcatcatc 480
 gcagacgagt aaaacattca tcatttgaaa ttggtatcac ccttgattaa cgccagtcca 540
 gaaccagct agaggtatcc gagcaacgca gaaactccca aaaaagagaa gagaaaagga 600
 ccagagagct atgtcagatc ttttccacaa actcaaccgc ccgcccggct cgctcagctt 660
 tgcctactgt agatgccagc gcattaccat ccacaccatc agacctggac atagcatcgt 720
 cattccccgg tacaggctcg ccctgcagcc gaaggagtgt ccgcaatgta tctcgtaaa 780

cctctgccat ctccccattc cgccaccgct ccgcttctctg ttctgttcca aggggaatat 840
caagattcca ctcccttctg gagacttttc cccgccgtct cctctcccct tcattaatat 900
tagcaacgtc ttcttccggt tgcgtttgca gttggctctg atttctatcc gcgtctgcat 960
cgttcattcc aacatccgca tcgtcttctt cattgttgaa ttccttatcc tctcctcaa 1020
taatcctccc cagctctttc gcgtattccc tcgccgcccgc tcgcggcgca tccctcctca 1080
actgcgcgac cgttgtagtt aacgactcaa gctgcgcata catcgacgca acccgcgccg 1140
ctaactttcc gtcaaatggc tcgtactcca ccgtttccag ctctgttggc gcagtaaagt 1200
ctgctgggaa aggaaactcc ggtgatgtcg agtccagccc gttgatcgaa gcggaggcgg 1260
atgcggatgt gaatgtgccc gttatgacct agatcgaata agaaaacgga tctgttagca 1320
caactgcata tctcaatata taaaggtgca ttaagaaata tgcagataca tcgtccacaa 1380
gttcgcgcac gcgctcgcgc atagtttcgg gtcattgtt tggggctcgc gaggggggta 1440
ggtgcaggtc tagtttttgg cgggagagag caacggtgtt gctgtgaagg taggtaaagt 1500
ctgcggcaga ttgaagtctg attttccggt aatgcgagga gtccattgtc tgttttccag 1560
cgaggggtgtg gttctgaact ggcgaagata tgaacttccg cgtgtattgt agataacggg 1620
catgatataa gacggacgcg tcggactcag gatgggccat tagcggatgt taagtgcctt 1680
gtagcctaaa tatattactg cctgaaccat caggctacaa actagaaagg ggaagcattt 1740
ctcaggcacc aaacagcagc agatcagccc cacaaccgac gtcattctcg atcgatcggg 1800
cttctgcttt gaaacgttca gacatgatat ttgcatgttt cctcctaact agagagaagc 1860
cgccgctacc tacctatctg tcctaaaatc catcaaggat taaccaggct atgaatatgg 1920
gcttccgaaa tctcatataa gcacctagc gcgctatgca atggcctcca acatcaagct 1980
catcgacaat acagctcctg ccgagcggcc agccccagac gacgcctct tctccgagat 2040
aacaaccacc accagttcag tgtctaggtt atggagtcga ccatcgatcc gtgcggagcg 2100
ggcgaagcgc cgttacgcga aatggcagcc tgagcggctg ggtgttgctg ctagtggaag 2160
caatgacatt gctgagcctg ggtcgggtaca gccgtcgtcg tcatcggacg acgggtgaat 2220
tattgcgtgc aagaaccgat acaaataccc tcaccaatac aagcgcaatt ccggagaaca 2280
agagtcatgt aaacgatggc aacgacgaga gtaaaaaccc gcagcgtatt gcgacggaac 2340
aaatacagca gtacgatttc ggcactggta acgaagcaga atcaggagct gaaaggtcaa 2400

ctactcacca atcaaaaaat caccctaaaa tctgtggcct aaaaccaggt agcgaactgg 2460
acatacttta tgaaaatcag cgcggttggt tcttcttcgg cgtcccgtc tactccagcc 2520
agtcctcct taacacggac ccggtcctt gggatgaatgc cacggggaag cggagttttg 2580
tcgat 2585

<210> 1865
<211> 3446
<212> DNA
<213> Aspergillus nidulans
<400> 1865

accctcgga ttgctggcga cggatgatgt gctccatcga aatgccagag cgccgaacat 60
cctccaagcg gataacgatc tctgagcggc gccgaagagg attgaaggtg atatggtgcg 120
gaatgagctt ctgctcgagt ccgcgagat ggaaatagcg gcagtcacgg agcagctccg 180
cgcgttgcg ctcgctctcg acatgcagcg gatagccttg gaggaggtgg acgagctgcg 240
cgaagacgtc gccggagcgg ttgggaacgc tgggcggcac aatggctggc ggccgtagga 300
ggccgcgtcg atctaggcca gggaagactt ccgccgggga agcaaagaag gcgccgaagc 360
cgaggtgaa aaaattaggg ctatcgccgg gccagagaa gatgtcgcgc gaaatctgga 420
aatgacggtc gccgatctgg attataatct gggattcgaa gagttgggac atcaaccggg 480
gaactgcggt taattagttg gtgcttttta attgtaaaac tggatattag agagcgtacg 540
gctgtagaat tgcgcgtcgg cgaagagttt aacgaactca gctccatctt tggggaggca 600
atggtatcct agaggtaatg ttagcctatc ttatcgaagc cttggttgcg atagcttggg 660
ctgaatacct tgcagatgtc gggcgatttc ccggaagtgc acagggtcgc ggtcgatata 720
tagagtgcgg atattgttcc catcaggggt ctggctcaat tgatcttcga agaatcgcca 780
gaagtacgag ggggctcaac aacaaccgtc atcataagaa cgaccgtacg gcgctgggaa 840
ccagatccaa ctaaccatca gacgcaatgg agggcccaga gagacggaag agctttgtgc 900
cgatctggat agagaagacc ttctcgggcg gaagtgtgca gactggtggc gatgtcttgt 960
ctgctgccat ctctgttcgc tcgattaaaa cgatgtggaa cgattatggc tttgccgcat 1020
ggcaggggtg tggattgaac tcgaggaact caggctggag gccggcgaat gccagcgtag 1080
tcagatgtca atagatgtcg atggcttttag ctatatatca tgagagtgtc tgatgccaag 1140

aagtggaagg catagaagct ggaatctaaa gctggagctg gagctcaagc tgtgtccaag 1200
tcacgagcgg ccggagcgat cggcgcagat attccgggtc ccctcacaaa caattcatca 1260
tgaattgtga tgattctccc catcagcatt gaatgctttt gctctgagaa acgcttgaaa 1320
tggtctccaa aatgacttga ttgagccagc agtttctact acggagtatc gaccgttggt 1380
tccgcagctc tcccgaattt caataatcgg tggagattac cccggtttcg gcgaccatgg 1440
ggcaatcact ccacattgag attctgaaaa gaaactaggt ttcgataatg gcgtcgggtt 1500
cgatttagtg tgcctgagga ctggagatgg cgatgcggag agtgggaagc ttgcggtttc 1560
acatggccac gggctcgggt gtctgactgt acacagtact aaaaagaagt atggacacaa 1620
atctcctttc ccgcgtctca ctccactaat gcactactac tatatttgct atagtagcgg 1680
taggccgtct actctgttcg tgactcgact cttattcgta tgagatcctc tccgcgaaac 1740
cagttgattt gagtggccga ggcagaatgg cctgatcctc acccactgtt ctttcggcgg 1800
acctgcctcg gttgatcggc cattgtggtc caagcccccg agtgcctctc catccctcct 1860
cgacgctgct gcgacgaacg attgattggg taagggtcgg ggaagctcta gccaggggtg 1920
gtcgactcga atggatgtag tcttcattgc ttgctaggta cgggtacatg cttacagagg 1980
ctatcattcg caaggactac cccttcacgc tcgttcttgc ctcgagtcct cgacctccac 2040
tctttctagc ccatcattct ggggaaggtg ctctccgccc gccctgttga tgatctacac 2100
tgctgcagc cgtatatcaa ttttcccttc ctccacttc gctggctcct ctcccacagg 2160
atctttctat ttgcgagggg atcgcatctc tattcttctg cccactctcg ttgggttgatt 2220
atccttacac cgcttgcgga gttgagcgtc gccattgtcg tccgcaatga cagaacaact 2280
cgtttcgttc acgcctctgg tcgccccaat atcccctgtc tctaacgaac aggtgtttta 2340
cgacttgcaa tggaaaacac tcttatcttt ggctgatact gtcacccgt ctgtgcgtgg 2400
ccccggggc cgcaaatcgc gcgtaccaa ggttgtagca caggcgaagc tagacgctgc 2460
gctcgagact ttaagggcct ccatccgagg ccccgacgca gatacccttg taacacagta 2520
cttgaggaaa aatttaacct ccatccgga ggttcgcaa gcattgcagc ggctcttcac 2580
tcagcatgtg cacaaggaag gacgaaatgg actgagtatg atcctcagt ctttgaagta 2640
tgttgctttc ggtcaattgc cttttgtgta tgctgatggg cgtatagtac gaaagccggc 2700
tctttgctac ttacgggctc gatgatccct attcaggacc aacccttcta tgtccgagag 2760

cagattttcc agggctggag tgactcgcgc ttgccaccgg tgcgcgccgt ctatcgcgcc 2820
 ctactgcga tctttaagaa ggtgtgggtt acgttcagtc cttagccttta tccgacgctt 2880
 ggagttcccc atgttcccat ctatggaacc ccgcaaaatg gcttccaatt cgagtttttg 2940
 caattcccc cagggcagaa accagagatg atcgaaacag atgtgctcat catcggaagc 3000
 ggctgtgggtg gcagcgtcgc cgccaaaaac cttgcagaag ccggcaagag ggtcattgta 3060
 gtggacaagg gctattcatt cacaaaccag catttcccca tgaagcccaa tgaaggtttc 3120
 aacaatctgt tcgagtctgc tgggtgccgtc atgaacgatg agagtctgat ggccgtttctc 3180
 tttggctcta cctgggtggtg tgggtggtacc gtcaactggt ccgcctcgtc tcagactcaa 3240
 gcttatgttc gccgtgaatg ggccaagcga ggcctcccg tctttacctc cttggagttt 3300
 caaaatagct tggatcgcgt ctgtgacagg atgggcgtca gcgccgacca tatcaaccac 3360
 aacaagtcca accgcatgat ccttgaggga tctcgaaagc taggttattc agccaagccg 3420
 gtgccgcaga acaccggtgg cactac 3446

<210> 1866
 <211> 5628
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1866

gatcattttc ccgtctttcg atagaataat ggcgttaatg ggctccgcgt tgtgcttcac 60
 catatgcac atcttgccgc tcacatttta tctgaagata ttcgggaaga agattgaccc 120
 aagggaacgg atcctggatt atttccttct aatcatatcc tcagtgttag cggtcattgg 180
 gaccgtttgg gcattttctac cacaggccac cattgttccg atatgagttt ccatgcgaga 240
 tagtttctgt ttattggctt ccactcttga taacaatagc aaaattattc ctcgttttcc 300
 ctggatttag aagctccttc ttgaactgct tgggctggca tattccgtcg tactcccaaa 360
 gctggtatat taattttgtc gtttgcttgt cctctgccag agaaaaacca atacttgtca 420
 gaatgtcgtg cagtctctgc tgagtaaggt atcgcgagtt tgtgacgcag ggagcagga 480
 gcacaaggaa caaccttggc acaatagtta tagaggagcc ctgcggtggt tccttgggtca 540
 agaaagtaac acaacgcttc aacatttctc ctcgatcgac tggatcaggg acgtaattca 600
 gcactaggga gagtgatatg atgtgaaacc gttcgtcatt acttagggga agcggtcgtt 660

ccatgaaatc ctgcttcaag atccccgggtt cctgagagtc taaatcaatt ctcgtgacat 720
 cgaggtgttt gtgctgagag catgcattct tggtagtgag cgcaccgatc tcgaggaccc 780
 ggagcttcag agacgtgctt ctcaatacgt tcaaactagg gctgatccag ttgacaagga 840
 ctctgcttga gtcgccgccc cgggtctagag attgaccaag cttgcttgct atctgataac 900
 tttttagtcc accgttttgc cgtatatccg cctcgagctt gcgcactaaa tcctggtcgc 960
 ctgatttttag tcgttgcgct cgctgtttta aaagtgtgtg atgagagcgt atgagagtgc 1020
 gcgttgccctt tgctgataag gctgcatttt tcttctgaac tgttgggtggg cgagtgcgag 1080
 aaagtagcgc gggacgtctg ttctccgatt ttttcgtagc cataatgcat gtttcaattg 1140
 caagatgtac attgtcatag taaggtaatg tatggcttcg gatagcagac cgcttttttt 1200
 ttcttctctt ttctgcctgt ggtgaaaggc ggtaaaaaac gaatcacgcc aagattctag 1260
 gagggctggt caggtgaccc acagaggaag ccgcgaggtt ttttgctaag cgaagacatt 1320
 ccgaacaatt cgactttcga cactgcgaca atcacgaca cagcgccaaa cgacagccat 1380
 ggcccccggt cagaagaaga caggtatgca agcttgagcg atccagacct tttattctcg 1440
 atatctgttg tcgattttgg gatatgttcg agagcatgga gtcgtgttat acaggaattc 1500
 ttcatattcg tcccgcgcaa tctattccag gatgaaggaa ctgaaagaac cacgtatcga 1560
 ctcggttatg cttttgtttg attccaagat tccctccgac aactatactg cataccgact 1620
 cgaaaattca attctaaaat aaatcactca cattcctttt tctgaacagg caagtcgaag 1680
 cccagcgaca aggctggtgc tgccgccaag gcagtcttga aggtgacagg cgtacgtcta 1740
 aaacgtcctc aattatgaat tatcacagaa ccctatggct aaaatgttac tcgacatatt 1800
 caggcgaca agactcgcaa gatccgcacc tccaccacct tccaccgccc caagaccctc 1860
 cagctgtccc ggtctcccaa gtaccgcgc gtgtccgtcc ctcaccttcc tcgcctcgat 1920
 gccgccaaga tcattctcta ccccttgaac accgagagtg ctatgaagaa gattgaggag 1980
 aacaacaccc ttgtgttcat cgtggacgtc aaggccaaca agcgacagat taaggccgcc 2040
 ctcaagaagc tatacgtatg tgagactgtc aaggtcaaca ctctcgttag gtacgtcccg 2100
 gaagatctta tacgaaagaa aaagcagcat ctaactagaa tacaggcccc atggactgaa 2160
 gaaggccttt gtcgtctta cccctgatgt tgacgtctc gacattgctg ctaccaagct 2220
 tgctattgtc taagtgattg attttcta atgggtctgga aatgggtttt ttttgcgcgg 2280

tggcttatat atcggcccta cagctccctg ctgttggtgcg ataacaaatg gctgaatgaa 2340
 taaaacaaaa gagctttgat gcacgagtat accctgtgta gttgtcagcc aggtttattc 2400
 catgaacctc tggagagata acagtagtca cggttctata cacggcgctg ggaacctaaa 2460
 gtagtttgag aatatgtaaa tcgaagagaa gacttaagac tgagcttcat tcaaaatgta 2520
 ttgcattgct atagtacata caggtcgcc acatcattca caatacacca agtctccgtg 2580
 tctacagtga ccgcaaatcg ttccgaccag atgggtggcag ttataagaca tcaagccctg 2640
 aacctctata acctccgtga attactctag tcggaagtaa tatggacagt tattgtttct 2700
 gcatagcttg caaatgcttg agtacggcat tgttggtgtc cagccaacgg tcgacacagt 2760
 tcattgcgca agcttcttcg ctcttctcca accgactgga tgtaaccttc gaggtaatgc 2820
 acttcttcca gcaagcatcg gctaggtgat ggacatctaa gcaacacgcg tgtgttagca 2880
 gaggctaaat gagcaatgaa gcaagctcag caaccaatg gttgagaaag aaaaaattg 2940
 cggacggcgt actttgctgg atagcggcct tctgtgattc tgtttgagg atctggtgca 3000
 gctctttttg gtcggcttcg ctgagcttgc tgacatcgag ggtttgttcc attctgtcgg 3060
 tggctctgctg gaaattgctc tgctggaaat tgtaaaatcg agtttgctgg acagataaga 3120
 gtggcgggta cggagtagtt gtcaactgag atgttgctgc gccgaaaaaa tgacatcgat 3180
 cttccagagc tagggcgggtg agagcatgca ctatctgata aggtcttagc ctggttctta 3240
 cgcttcttag agctctaatt tcctttctcc gcgacgttga gtttgacttc caaacatatt 3300
 ttttaagcga ttccggtact ctctgtctct ttgaagatcg atttttcatc aactgaatca 3360
 cgaagcccat aaagaagatg cctccgatcc gcacatctcg caatcgcaag ccacccccag 3420
 cgggcttcga cgatattgaa gacactttgt tagagttcag caataaaatg aaagatgccg 3480
 agaatgcgcc gcatgaggga aagaagaagc acgaggtcct gtggcctatc ttccagatca 3540
 ctcaccaacg tcagtatctt tctcctagtc ttacataacc attcaaagtt ccaactccct 3600
 gaacttacct gaaccttatt aatataggct caagatacat ttacgatctt tactaccaga 3660
 aagaggctat atcgaaacag ctatatgaat ggctcttgaa gaacgggtat gcggatgcga 3720
 acttgatcgc gaagtggaag aagcaagggt acgagaaggt aagttcttcg ctgttatcac 3780
 tcgtcgcaat atatatgagg ccggactgac aaacttctca gctttgttgt ctccgctgca 3840
 tccaaaccaa ggaaaccaac ttttaacgca cttgtatttg ccgggtaccg aaggctcaac 3900

taaaggagga tcagatcatc cagtgtgtca gctgcggatg ccgtgggttgc gcgagcagtg 3960
 actaagactt ccttacggtg ctttgtgcct atatgttaat attgccacac atcgttgaag 4020
 aatgacagcg ggttcgagtg gcatatccct tctgcggtct ctcagctgtg cgcattatgc 4080
 atgactcgat ctggcctggg tgtttcgacc tgggggttcgt gaagacagac gttcgacact 4140
 gcgtggacaa actggtaaac catagtacct gtccttcgag caactctgtc ggcccaaaag 4200
 cagctggtea gcagccttgt tgttctcccg gcctacgtag gagtcagtct cgcagacggt 4260
 gcggcgtgcc aattatccct atttttcacg tatgttctgt atccgacctt gcgttgggac 4320
 gaaatggtac cctgtgctg gcaccgagga aaccgggcac ggctatggtc gatagacgca 4380
 ggagttttac agttaggatg tgtttacggg cttttccata atcagatgct caggtagata 4440
 ctatctctta accaagttcg aataagacac agtcgtaatg gcagtgacaa agatagcaat 4500
 gaagacggcg aaaaagaaac atgctgatat aaacgctgca tactcatgta taccctaaca 4560
 gatatcgctg taaaggctgt cataaaatca tctcaggtaa tcaaagccaa caacgacgag 4620
 ccctacctcc acccaaaact ccagggagaa tgattgtgaa agcaccaaaa tgagcggata 4680
 tagagaaacc ccggtaaacg ccagctcttt aatcttagga accaatgggt aagtaggtat 4740
 taggacatgt gcatggccaa atccaaagtg aacgcccgtt gcgggaaaac aaagaataaa 4800
 caaaactcaa gacaccactg acatgaacaa agacattttc gtggacaact cagatctggt 4860
 ctggtaaagga ggaagataaa gcaacaaggc atgaagcgtc aaggccgcgt gttgctgccg 4920
 cgctgaaaag ttggctgtga gatatgggat cgagatttcg aggcacgtc cttgctcgaa 4980
 cccctatatt tttggaatcc ttgtagaagg tcgacaccgt ctacttctg tgggctgtca 5040
 tcaaaaagat gccatgagaa aaaatcatcg tgcgcagaat caatgaagcg tccagagtca 5100
 ggaagttttg acggcgagtc agaaaaaaaa agtctttttg acttattcgg cgataagggc 5160
 ttaaggcccc caatccggtt gttagcactc aaagcagtga tatctgcgag ggcatttcca 5220
 gttggtccat gtgcttcagt acgagcacgt ttagccgagc gtttttcagg ggaaccgtaa 5280
 gccgatttag atacaggctc agtagtcggg tcggcaaaaa cgtcgaagga aacatgaaga 5340
 ccatcgtgtg gagtataagc ctcgtcatgt atgttgaagg caggactcca tggaagatct 5400
 tcatccaggc ctagtcgctt tattggggag ttgaccatgt gctggatttt cttgcgggtg 5460
 tttcgaagat tagtgtttgg tgacactgat ggaggcgggt tcgcaggctt tttgaacttg 5520

ataacggggg tcagggggcc tgcaagcacg tttatatatt cgttgcgga cggagaggaa 5580
ccaacaacga tccctgtttc tttcaagtac ccagagtgac ttggcgta 5628

<210> 1867
<211> 5675
<212> DNA
<213> Aspergillus nidulans

<400> 1867

tgggtggtgt ttacatgctt tttacgtcgt ccgctcggct tgaagctacc acatggcagt 60
ctcggatgac tcttttttatt gcacacggta acgatagcca gaggggtcat attgtcgcgg 120
ccgctaagtt tggattcgcc ctogtgaacc gcaatacagg cgagctgtca tacatcgctc 180
gcccgtggga tgaaccagat ctgctcagaa ggtgagttga attgtgctct gtgaatcgaa 240
cgagttcctg acccatataa cagaatgcgc ttcaacgatg gggcggtcga cagcaagggc 300
cgtctctggg ctggagccat gaacgatccc aagggtccaa gtctgatcaa tgaaggggtg 360
cttttcgggc tagatccaga cctgaaactg agtcgtatgg ttgagcagtt gacgatacca 420
aacggtattg gctggaactc cgccaacgat acgatgtatc tgacagattc cccaacgggg 480
aagatcttcg ctttcgactt tgacgagagc actggagaga tcagtaacag gagagtccat 540
ttcgacactg gagagccaaa agaacctgac gggttcgcca tcgacagtga aggatgtatc 600
tggagtgcaa tctacggcgg gggtaagggtg atccgcatcg ataccaagg caaagttatt 660
ggcgagatct cacttcccac ccgaaacatc acctgtccgg cttttgtggg gacagaacta 720
ttcatcacca cggccaagga cgacaaaaat gacgacaagt tcccggagtc gattcggtat 780
ggagggcatc tctacaaagt tgatgtggga gtccgaggac aaccaagaca tgagtttcgc 840
ttcagtcaat gaccattact catgtgagga taagccggag tgaatcatat tgttgggggt 900
taatgattgg aaatcattat tgctgaaaac ggtgctttgg atcccagggt cgaaagcctc 960
aaaatgccct aaagctcagg tccgtctgcc ctccagactg gacgaaattg gtccctttcg 1020
gatcagtcac gcatatattt cttagcagcc gaaaccgatt caatagttct ccgatctaag 1080
catcttacct aagacctgtg taacaatccc caaaaagggg cagcgtgaa tccggcctcg 1140
ggggacgagg tacggttgtg ctgagaccaa gcattgtcag cctgtcttca cgccgttacc 1200
atagtacaaa tgttgagcat acctttaatg ggtcctgacc ctttgaggct taagctgata 1260

tcctccgcgg aggccttgac cgcaccaccg aggttgctcg tatcagttgc cgagtatcca 1320
 ctctgtggcta gcccaactgct ttaccaaga aagagaagta ctccgtacgg acaaaagtac 1380
 ttctgtccttc cagatcgtct gtgcgaccca cgtttttgtt tctctcgaaa ggtaccacgt 1440
 acggccgaaa ggaggtactc gctaaagcag tatagtatat tactggcggc tcggtattgg 1500
 ccaggtgaac ggtacatcta cggacagaga ttgggggtccc aactccacgg taatacaatc 1560
 ccaatgcgac ttgagaacaa tgccattatt ccccgttggt attcctgcgg tcgcgtttgc 1620
 cttgaaatct gtgtaatagc gaatgcatcg gctaccggga tcgcttctc accaagagat 1680
 gcagtgttcc tgcttggctc gagctaactc aatctagact agaacttaat tcgaacgatg 1740
 aaagcgtgaa ggaaactaca tgcattgtcc tgccgagttc cagcatcagg tccttttcgg 1800
 aacgtgcaat attccagggt ggacttggtt tcaccgacct gtatattgat gctctgtact 1860
 gtttatctgt ctctgtcacc ccacctgct tgcttcgtac atgggttcaa tgcaacctga 1920
 caactgcgtg tggagcgctt agctcggaat aaaatcgata atgaccctac ctcgaggcag 1980
 catgagaaga cccaattcc ataagagggc ggttacagcg gcacagacga tgggtcttga 2040
 gaacaaaaaa aaaagatgga aaaagcaacc atgccacgca ggcgatcaat ctgatcgaga 2100
 tcgaaagaaa aaaaaaacg accattacca atggacatga attaatact aaatcatgct 2160
 ttcaagacac accgactcgt cgcgagcgga cagcgcatga aaagccttga actacaggcc 2220
 tggaaagtgt tggagaaggt cttctatttg ttctagaaa tccccgtca caagggccaa 2280
 ccaatgcaa agccatgcat tctctctctc tctgtctctg tgcacaccac acggaatcat 2340
 tctcctcact tactctttgt cttctctggt ctcttcaaga caggcaggca aacggagcgg 2400
 aacaataatc cgtcgttgca gtttgtagcc taaccgttcc ccatggtcgg agtggaggcc 2460
 gttcttaccg tctttcacga ggcccgataa tcccgaattt atggatttgc acgtacggg 2520
 gaaactaatt ggagtctatc agtcaattag gttacgctat ctctcccagc ttggcccagt 2580
 ctaacgtgtc actgcctcgt ctcaaaagct gcagtattat cctccagaat tattgatgat 2640
 gtgcgactac cctccacctg tcggcatgga cgtgcagcaa ccttctcgcg cggccttcgc 2700
 ggttgatcga caacgataaa atttgaagat gtgtcttcta actttcgtat ggaaattgcc 2760
 atattgatac actgactctg acaaggatta cagcgttggc ccatgcataa agaatatctt 2820
 ttggtggttg ttgctctgac gaccagttg gctggctatt cgtgactgac acatcctgaa 2880

acgacagact cacaccactc accaccacag agcatattga aggatcgggc cggccagtct 2940
 ctgcacgcgt acggtgtgca ggttccacca tgacttgagg agtaagaaga agaagccgac 3000
 aacattagga cgttgctgag ccatccattg ctgaattgac ctgggccact caccgtcaga 3060
 ttcgtcgtg caccgtcgtg cgtcgcccat cggatctcga acgagatgcg gaccacaagt 3120
 ctacagtact gtggtagctt aagggtgaa gcctcttcac tttgagacac ccatgtccgg 3180
 cgtagcccaa agtatattga cgcccacgta tacgtaccct gaagcatttt gcgaagatag 3240
 actctctctg tatggtaggt ctccactggt gacagaactc agcctactat cgtcaggcat 3300
 tgttgctcc gtatagcgcg gtaatcacgc ctctgtctat gcaacgatca gttttgggat 3360
 atgtcatgag taaggcagtg gtcacgagc ctaatgtcgg ctcatgaag gggtcctggg 3420
 tattcatctt ttcggaacga ccctagtgc aattcaggat tcctgaactc ctagtctcta 3480
 tgcgagatga tacatatggt cggcatcttc ttggaatcct tgttgcttcg ttgttttgtg 3540
 cccaatgttg cagcggaac atactccgga tcatagcctg attctccttg tcatttaggt 3600
 gtctggacac ctcggtgac tgttgattgc tcttccgctc ttgaggattt gtccacatt 3660
 gagttacgac tcgaaagtag gacgtaaact atgtggagca cgccagggtg tgagttttga 3720
 gattcgcttc ccaggcgaaa ggatggactg gcaccaatga aatcacgtta tacccaataa 3780
 agacatgaag ggaccattgt gtggtataca gcctgaccgc cgggacaatc ggactgaccc 3840
 gataggacga gaattatgtg agtgacgac aatcacagaa ggagcgtggt ctctgtggag 3900
 ctctggagct ggacggcttc gaccggccg agcctgggag acggcgccaa cttcccagt 3960
 catggaggca ccacgatcct caaagccacc cacatttatg cagaacatca agaaagccga 4020
 gccatccgta catacatata aactcggatg gtagccacca tagccctggc cggactccaa 4080
 cagcaatgtc tgcagatgcg gagttgatca gataggccaa gataaccaca ccatcacagg 4140
 aatccaagcg gaccagttgc agatgcgtgg aatgaagcct ctatcagcac gtgcagcgtt 4200
 gctcgtcaat ctagacgtgg tcttcaagtt ctttccctt ttctaggggc ccaaagtctc 4260
 ctaccgggt cttctgatct tattttccac gtcacttcta gcgggagtcg acgaaaccgc 4320
 taggccgcgt tttagtactt cgtgccacaa aaaactcctt gaacgaagtg ctaccgtcgt 4380
 gccaatgtg gcactggtca gccaaagttt tcgacaattg agctgctgag ttgatcgggt 4440
 ccaggggagg cttagattct tcaagcccga tcccaaatgg ggacactaca taacttccac 4500

gttaccagcc atgcgacgag gagtccaaga tcaacctagt tatggggccgt ggggagaaaag 4560
 ctcaccccgga cggattgtct tggaagggaac ccgccatcct ggagtttttg ggccaggccg 4620
 tcggtggtat gaccgtacta tgatgctatc gtgagttctc gaacaccgct tcgaaaggca 4680
 caacggtact tctgtcggag tccggatagt caggagcggg aagtactgag tctgcggagt 4740
 aagatcaaat cttcccgctc ctggataaat aagattctga atagtaatgc gggtcgcctg 4800
 gccttttagg cgcacaaggc tagtcgtagt cgtagtgcc acggcccaca gcgagggcct 4860
 cctgccacct gggtagcgt aactgccgc ctgttctgtg acgtgcatgg ccaattgcct 4920
 atccctgcct gcatggggca tagcatcgaa tccttggtt ccttgagggt gccggcctcc 4980
 actaaatccg accatgacca tggtagcggc gcgcctctta ggtgctccg gtcgctcacg 5040
 atgtttcccc agcccatcg ggcccacgcc cctgctagta gccccttagt gctggcgcta 5100
 gtttgctct agaaacaacc ctggctggcg accaattaaa ccgctcgat gggtgctact 5160
 ttcgatgagc gtccgccgac atggcataaa taatcataat acggcagtaa taatgataat 5220
 aacacaccga atccaatgcg aaaaggtcca aaggctgaaa gattgaaaca aacaacacac 5280
 ttgcgtcaca tcctctgagc ccttctctt tctgcccaat tggagtctga tattcgatct 5340
 ccaacatttt gctttgtctt gaggaacac aatctgctc ttcacacttc cattcaaggc 5400
 gaggcacaga tggatgcaga cctggctgtt gcaaataaca caaagtacgt gtctgagcct 5460
 gcttcgttgt caagtcgatg gcctggagcg aggaagccgt tgagcgctgc tgggcagtct 5520
 tgcgagcccc gtacaacacg tgtatgttgg taccgtattg tacggacagg tatatgacat 5580
 gctttccctt ttgctgcct tgaatattct attaataaa aaatcaaaat ttcttttcca 5640
 ttttatcttg attttatttt attttgtttt ttgct 5675

<210> 1868
 <211> 1620
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1868

actgaggaca gaccttttcc ctcccttcca tacggcggcg aaacccatcg agtgtaatcc 60
 ggccgctgtg atttccctcc caccaccgc ttcgtccgcc gaggccatgt ctatgcttga 120
 cgcgccctcc accagcatgc ccgatctcca acgcaccag accgtatcac agctgtcgaa 180

atatgatcgg aaatctagaa cagcagctaa ttatgggtcaa ctactagaaa agcctgacca 240
 ggagcatgat catgaagagg atgaccagga ggaggaagtt gatgagggtt tcttggagga 300
 tatgaaaaag ctcgaagaca actttccagg gatttcagat cgcttccgtt tgggtgaatag 360
 gattgggtgaa ggtattgtct gcaatgcacc ttcatttacc atacggcacg cccggaacac 420
 ctggatcgcc tgactaaact tataatctgg tttataggca ctttctctac tgtatacaag 480
 gccgaagatc tcctatacga ccactaccga aatgattggg atgtatttca agatactccg 540
 agagatgaat cgacaaattc gccgtcaaaa cgtcgtcgag tagaagacga gaacgggaat 600
 acgataccca tcaggcgaac gaaaccacga tatgttgctc tgaaaaagat atacgtcaca 660
 agcagcccac tgcgcatcca gaatgaactg gaactattac atgatctccg gggatgccga 720
 tcagtttgcc ctctgataac tgcattccgt catcacgac aagtggctcg cgttctgccc 780
 tttttccgc atacagactt tcgacttcag taccgaacgt tcatgggtggc tgatatgcgc 840
 cttactttc gatcggtgtt cactgcatta cactcggttc ataagcaca tatactgcac 900
 cgcgatatca agccaaccaa ctttttgtac aatccggact tacgggaagg cgttttggtg 960
 gacttcggtt tagcagagcg cgaaggctcc gagtatacag ggacatgtct ctgcacaagc 1020
 acgagccata tacgtcgcgc gcgttacacc cagagttacc actataccca ctgtgcctct 1080
 tccggcctcg ctataggcta tccgaaaagt gactctcggc cgtcaaggcg tgccaatcgt 1140
 gccgggacgc gagggtttcg tgcacctgag gtcctgttca agtgcacctc gcaaacaacc 1200
 aaaatagata tgtgggtctgc cggcgtgatt ctactaacat tgcttggctg tcggtttcca 1260
 ttcttcaact cagccgacga cgtcgacgca ctgatagaaa tggcgagcat attcggcacc 1320
 cgccgcatga aaaatgccgc tgccatgcac ggccagatat ttgaaaccaa tattccgacc 1380
 atcggagaaa aagggttatag ctgggaaaag cttgtgaaat ggtctagctg tgtagaagag 1440
 ctgacagaga gtgagaaaca agctaccgca ctgttagcag gattgatgga actggatcca 1500
 tccaaacgtc taaatgctaa agaggctatg cagcacgaat tttttactaa ccctatcgat 1560
 catgatgttg aatggggggg gcccggaagac agcgcagata gcggtaggga agatgaaggc 1620

<210> 1869
 <211> 2654
 <212> DNA
 <213> Aspergillus nidulans

<400> 1869

tggttttgtt gtgcagataa atgatacggt aatcattact gaataccggt gtttatgatg 60
atctaaatag ctagctgcac atttcattctt gaatgtgaag taacgaatgt actgcagtat 120
attcccttcc gttgaatcag ctgcctcgtg aagtctatat atagtctgca cctggtcagc 180
caatggcctt gactctacta tgaatattaa acattagtat agagagacat ggatgcataa 240
cgagagacta acaatatcat acacgtatag ctaagcatga gtggcaggaa accctacact 300
ggaatacggg gaactccaag ctcggtcgtg cggttactat gcttacaata atttttctcg 360
tataaggatt gcccagacg cttagtatca tttgctagct ggtatgaaat gggaagggt 420
ggtctaagca acatcaagta gtaggtatag aaagtgagtg aaaataaaga ggctggtca 480
tggatggtga agtacggatg aaggggctgg atgaatagat gattaaacac ttatggtata 540
aagatgtcgt tctttcactt cgttcctttt catcatttcc gtacacgccg ggcatgattt 600
actagattct ctatcacgcc ctcgaaagcc tctttttcgc ttaagagacc atcgcggtcgt 660
tttagccaaa attcgagtac agcggaaacgc gcagcgtgag ctcgtaagc tctttgacat 720
gggtttgtag ctgagtgtcg gtgaggccgt ctagtgcggc gtcggtggtc gcgcaaagtc 780
gccgtaccgc cgcgaggtcg agctctggtg gtggtgacgg ctcgcgccgt ctggatgacc 840
gctgccgagt cgcggtgctg gatgcacgtg ggctgttagc ctgctttgtg agtctttcct 900
agcaaggctt tgcgagcggg acaatgggccc gggcagtcga tttagatccg tcaatgtgaa 960
tggatgggag aatgagcttt ttttgttttg atgcaggtag gatttcgtct aggtccacgg 1020
ggaaccagg gagacgagga aaaggcgacg aatccgggac ttgaccaat tctgaggttg 1080
aagcgggggt ggagcaacaa gctgagacca taatgagagt gagcgttcag tgctgaagat 1140
ggcagacgag ttcgggatag gttgtaagtc cgactgcctg gatagcgag ctttagatgc 1200
aggaaaaagt cggtaagggt tcccgtccag acgggtgagt aggtcaggca aagatagtat 1260
agattcgaag tctattagag gaggctagac actgattagc atgagaacaa cgagacagct 1320
tattgcggtg gacttacgac aaaaggcggc gtcgttttct gggaggactg taacgaggcg 1380
ggatcaggtt cgtcgaggtc tgcattctggc tcttgaaac cgtcgtcgaa gtcgcaaag 1440
tcatcatcac cccctcctc gaagtcgtcg aagtcacac cgcctacggt ttcagcagaa 1500
tcttcctcat ttaatgttgt gttttgtcca gtgtgattcg gatgcgagga gctgtttgag 1560

tgaggcagaa gatctgaatt ggtcaatcgt ccttgagttt ttttgcctc ctagaggtta 1620
 aagaaccgga tgcttaccgg gtgagtcoga gactgtctct gttgcatccg gcaaagtgtc 1680
 gctcggccgt cttcgatgag cacgtggacc ggagtgtatt gacccatcat ctggtacgtc 1740
 accaacttca gaaagtagcg tttccggtag aggagtcgtc gtggtgttgg cctcgttgaa 1800
 ctctgtggga gctaccgacg ggcttgtggc ttcggaggtc ttcgtgacta tatctggaac 1860
 agcgtccgct ttccgttttt catacgctc cgtcccagga acatcacctg aacttggttg 1920
 acctgggtca accttttcca ccacgggtcc gggaattggt gtaccccccg gggttacaga 1980
 ccggcgatgc tgccccgcag cggaagggct tctgctgctg gagatcacct caacctcatc 2040
 aggaacagca tcttgctccc ttttctcata tgcgcttgct cctgggacgt caccgtgtga 2100
 agggacatcg tccactttct ccacccgggt ccggggtaca ggagaagcac gagacgttgc 2160
 gcgggagcga gaacgcgagt tgccttcgct ggcattctgag aaatgctctt cgtcgtctatc 2220
 ggaggctata aaatataggt attagtcaat gagctgccgg cgagtaactg tgcgtctgag 2280
 cgcttgagcg gcttaccatg gtcagggggc cctgggtcct cgagctccac gctctgcctc 2340
 gggggctcca agtacgagct ggtcggagga gaggggctt ccgtcatgga gaaagagtac 2400
 gctctagtat tcaagatcgg tcatgtaggc atagattatg gctttgaggc tcaacagaag 2460
 acggccagat gcacaaaagg aggcaagggt ggagaaagca ggttacagct tggataattc 2520
 agaccatctg gtgacgaagt cagccccgat catgtttgcc ttagcgcta aggctgaaaa 2580
 ttattctgcc tgaggtgttt ataatagacg cagataagcg cacctcaacg tgattggctt 2640
 ttataagcgc aaca 2654

<210> 1870
 <211> 1926
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1870

atcattcttt gggccggggc gctcttggtg gtcgtcgggt tgattcttgg gatgtattgg 60
 agacggtact cgcctttatc gaccagagct ttttcaacag agaagcataa ccagtcggat 120
 gcctccgagg gctctgcgca ccgacatgat agcctagatg agatcgtgga ggcaatgagg 180
 acgttcacca cccggtgcaa tctctgctc gagccgcttg tggaactcac agatttcctg 240

tcgactcaaa gatccgctac ctttgcgact acgcggccgg cccttaccac gttgtttgtt 300
 cggattctct tcgtaactcc gatatggata actttgactc tgccctccgct ttacctcatt 360
 actaccgctc gtgtcattat gatagtcggc acaattatac ttacatacca ttcgcgaaaca 420
 gcaagagttt gccgcgtcat tctttggagg tctcttacta ttcgccgtat atgcggaatg 480
 attaccggtc tgtcatttga cctggatgct ggcaagactc acattcagag tcacggtcac 540
 gccgcaaaca ttgcaactag gcgtcgcgga gactcgtcgg gcgttcgttt tactttttatc 600
 atttatgaga accagcgctc ttggctaggt atcggttgga cgtactcttt atttccgctc 660
 gaacgcgctg cgtggacgga tgagcatctg aatcctgttc cttcgaagaa cgagttcgag 720
 cttcccgagg tgcaaagcgg gaatgcaaag tggcgggtggg ttgagggcag cgaatggcac 780
 attgatggag ctgatgacga tgtgtctgac tccaaggctt ctgatggggg cggttggata 840
 tactatgata ataaggatat tactcaacat cacaccatt catccggctc ctaacatatc 900
 tgcaagttaa cgacggacgt cgcggtctat acggatggga ccgttacact cgccgcagaa 960
 agtgggtgctg ggatgccgaa ctgcgggaga tcacaccaca cggcaagccc ctagatgcac 1020
 catccgcctt gacccaggcc ttggcgcaag acatccagca gagcaaaacg ggaaaacccg 1080
 atgccaatgc cgatgcttca acagtggacg ctgattccgt gagtctcgcc ccgtccacaa 1140
 cctctagcaa agccccggcg cgacgttggg tcggcagttc ctcaaactcg aaaagtgtaa 1200
 gcgacagcaa aaacagcagc agcacatcta ctccaccagc cacaataaac aatgactccg 1260
 aaagtccttg aaatgcgaaa ataacctctt cttctgccac tagtactagt cacaaccgca 1320
 gcaactcttc gttaaggagc gtctcttcaa gaccggtgag catctctcgg ac 1380
 tgtccggtct ctctgggagc aattctggtt ataacaccgg aagtcgcgat gggagtagca 1440
 cggtcgcaag cgatagcctt agtattcggg agaaggagat ttcggatgct caggatcggt 1500
 tagataaatg gggggctagg gctacggggg ggacggaacg ggcggagagg gagcttggac 1560
 tcggtgatga ggtgaatatg ggactgagct gagttgagct acctaagtct tataccctgg 1620
 gtggagaatg tattcctaaa ggacttagtc aatctgcctt tacttggggc ctgc gct 1680
 gaggatcgca tggatatcgt atcattatct cttttcatta ctttggacgt gtgggtctt 1740
 catggtcagg tagatgttac agagatctag ttagatagc tattgaaacc tgggtctggcg 1800
 aggattgtcg cgaaccggaa aggagtgtat ccaggtatat acccctttac gcgagaatca 1860

agtcccagcc tagcctggtg agcacgtcag cccagtgctt cttcaccct ctcgcccgtt 1920
tatect 1926

<210> 1871
<211> 1100
<212> DNA
<213> Aspergillus nidulans

<400> 1871

tggcgataat acgactcact attaggaaac tcttcacata agcatatttc tccgactgcg 60
ggacgtcata cgattgacga aggtcggctg agaaacgcag tgcctcgcgc accgtctgca 120
taggttcatt gacatccatt tgctctgcat aggaagtgcc tcgttggaac gatgtaccat 180
gcttggcacc atctacaaa atgtcgccag aaattacgcc aatgttcttt cgcgcggcga 240
gaacgtcaag cagggtcgtc tccccgctc cggatgcgcc catcaaggcc gtcagtttac 300
caggctgtac gtaaccgtag atgttggtga gcagtcgtcg agtgccggac ggcacaggaa 360
cgtcatagca tacatcttcc catgttagga ctggcttcga tgtcagcaat atatcggctc 420
cagggccacc aaggctgttc gactgtcgag cagcgcgctt ttcgtccagt gctttgttca 480
gtttcttccg cccagcattt tcttctgat agaaggtagc ggtcttgccg ccagcggttaa 540
acctaacaac ttcaccgaag tacagattca tccctaagaa agcaatgatg agggccacca 600
tgatgccaaa gttcctccag agatcctctc tggtatagtt gaatgtggtc gataaatagc 660
tctgaccagg aattattggg gaacctgctt cacctccagc aagcgtagac acttggtggt 720
tcatatcggt gtatccatca ccatttgga ttagggactc gctggtacag gtcattatga 780
ggcttttaaa ttcgttgacc atcaagctag caaatccaag cccgaagggg ttgatatagt 840
aaaaccatcg tagccaaacc tgcgcattag gccactgaac aaggtatcca gacgttagta 900
taaacaaagt gatcaagaca gatacaaagt tcattgcgtg atcgaaagca ggcgacaggc 960
aaccgatggt tctgaagatg acagacatgt tgatatagcc cgtataaatg agcagcacia 1020
aagtgaagaa tgccccgtga ttctgacat ggccgcacat gaagttgact atgacgctgt 1080
aaacgaggat ccctgccatc 1100

<210> 1872
<211> 3165

<212> DNA
 <213> Aspergillus nidulans
 <400> 1872

```

tcccccttctc tgccaaatca catcatcctc ctgttcatcc catccttcac cccactctct 60
ttgtctcatt ccctgcaatg tctgttaaca tacaggatgg aagaactgta gaattgattg 120
gtaggacaag gaagatccca actttgtcag aatatggctc gctgacgctg cagagtcatg 180
cggataccca gacaacctgc gtatccggcc cctcctccgc taaaagcagc gtcacaccaa 240
aggaacagca agaagccaca agactcagag acaaagcact agaacaagtg agagggatca 300
gatttagctc tcatagccag agacacctac ctacacgact gaaaatggag gtcttatcat 360
tttggcattg ttcatcagtg caatacaaaa ataggcgccc cgagaccttg cgaatatata 420
ttcttactgc tatcaatcgt gctatcaggc tacgaaagga acacaactaa ttacagcaa 480
ctttgacggc acaagagcaa gctatggcta ctttataagc atatggattg cattcgaaat 540
taccagccca attggacgac accgactcac ctacgaggcc actggctgga gcaacacagc 600
ggaggaccac gtttttgcta gcagattatc tggaattggt gcccaagagc cacggaagct 660
ccatgccagt tccaaattaa gccttcttat cagcatctcc accgaatgtc acctacgagg 720
tagcagctta ttctgatgta acgaagcctg cttacagccg tgggctgctg ttccgggaac 780
tatgccagat cccgtggagt cataatgcag atatgagtaa cctacagacc tcgcgcctga 840
cgtttgagtg cgccgtcgct aacatcatgt ttgcatctga aatttctcag aagcatggag 900
taaattcacc aagtcattc ctgaatgcgg ctggcgggtg ttagacgact ctacagggcg 960
ggttcgacgt ctctcagccc agtttaaaga cgaaagcaag tggaatgacc agaaaccttg 1020
tcttgacatc catgccaacg gagctctagt catggaggcg tataccaaga gtgcataatt 1080
atacgaatgt acaccatggc ttctgatcat tctgctctac cctgtttcgt cggcgctcaa 1140
ctaaacagag ataattgtgg cgatggcttt ccttgttggt ctcaaacgac tccacgatat 1200
gacactagct tgcgtgatgc gcaagttaat gttggtggct gctgaggctc tgaacgaggt 1260
tactggagct cataagggcg aggtggccat gaaatcaata atgaggatgt cttcgctaca 1320
ggaagtgcc aacgcccgcg acagcgaaaa cgtatcctac taacagttcg agtaaaaccc 1380
caagccagga catagccagg cattggatag cataggtttt aaacggtgct ggtgtatcac 1440
tacgtgtttt ggggcaatat gtacagtttc aggcgtgatg tcgagacact gacagaaggg 1500

```

acttactttt cacttaacga ccaggataaa atgcagttct ttcataattct tctcaattat 1560
 tgaattcaag cacgatataa aatggctgaa acttgtaatt acttaagccc taatcgtaca 1620
 gtatactttc aggcctgcag ccagctggca ctgttcagtg gcacgacttt aaaaattctt 1680
 acataagcgg accatgcaaa cgcgtcaaac tgctttgttc cactcggctt tctgtgctt 1740
 cgatacagac ctcaaaccaa gttactgtca ttcatgggtca ttttttacgt tctgtgctga 1800
 gcatgggatg cactaaatag acatatattg cttgtcaata tctgatcttt gccacgaact 1860
 cgtaaccgat gccttgaaca aataccgcct gttcgaccgc gtcttgaagc tttccttggg 1920
 cgacagtcta tgcaaatatt gggtactttc actcccttgc tgggcgcca atcgtcggcc 1980
 tcaaaggcat ctcagtccat tctagagctg gacggagggg tcaaaatcct cgtaaactgt 2040
 ggttgggatg acacatttga cccgctcgat ttggtggaat tggagaagta caaattgccc 2100
 ttcgcatatc tatcaagcgc attgccttta accacggatg ctaacgcatg atactggtta 2160
 gacacgtctc tactctctcg ctgaccttc tgaccacgc aacgccttcg catatcggcg 2220
 cctatgtcca ttgttgcaag acattccctc tttttacca aattcccgtg tatgcgacaa 2280
 gtctgttat cgcgctgggc cgcacccttc tgcaggatgt gtacgagtcg gcgccgctag 2340
 ccgcgacctt tctcccaaaa gcttctatat ccgagcctgg tgccctgaca tctgctgcgt 2400
 ccgccgcatc tgtgaccgag gccgatggga gtgcggacgc aaccagcgtt gggcggatat 2460
 tgcttcaacc tccaacgaca gaggagattg ccagatactt tgccctgatt cagccactga 2520
 aatactctca gccgcatcaa ccgattccgt caccgttttc tctccgctc aacggtctta 2580
 cacttactgc ctataatgcc ggtcacaccg tgggtggaac aatatggcat atccagcatg 2640
 gcatggaatc tattgtttac gctgtcgatt ggaaccaagc tcgagaaagc gtcgttgacg 2700
 gtgctgcctg gttcggagga tctggtgcga gtgggacgga agtcattgag caactgcgaa 2760
 gcctacagca ttgatctgta gtactcgcg aggtgacaaa ttcgctcttc ctggcggacg 2820
 gaagaagcgc gatgagatac tattagatat gattcggagc acttttgtca aaggtggcac 2880
 cgtgctgatt ccaacggaca caagtgcgcg ggtgcttgag ctggcatatg cgtagagca 2940
 tgcttggcgc gacgctgcta gggacacca agatgatgtt ctgaaacggg gtggactata 3000
 cttagctggt agaaaggta acacaactat gaggcttgcg agaagtatgt tggaatggat 3060
 ggatgagagt attgtgcgcg aatttgaggc agctgaagct gcagatactg ctggccagaa 3120

caatgacggc cagcgttccg accaacgcca gggcaagaca gataa

3165

<210> 1873
<211> 4248
<212> DNA
<213> *Aspergillus nidulans*

<400> 1873

tgaggtcctg cttgacgtag ggtgttccaa agtgggaagat gttcagatat caacgcccct 60
gtcgcgggca gagatgtgaa gggcatgagg tgttgattct actgcaggaa gctgataatt 120
gtgcttgac ggattgatct gccacagccc aagcggattt gatgtacatc agcctagagc 180
caggagaaga acgcagttaa aactactgca gaccaactag gtcgaattca atgagccgtg 240
aatctatgta cttgtacagt gtcgtacgca tctatgcaac aaaatttaga tcggactatc 300
tcccccaacc gctaaagaaa ccgctgatg tcgttggggc ctcggtgtag gtctttgaaa 360
gacccgatt cggcggtact ccaagcagcg aattccggtt ttctgttggt gaggatcgtg 420
tcaaaccacg cccctgtcct cccatcattt tccgtaatga gtccagcttc gccttaacct 480
cttcagttc ctgttttagcg acggcctctg ctgtctttgc atttactagc tctaagagca 540
gcgcctcgtc acctggcggg ttgttggttt ctgtggatag aacgttttgc aggccaaggc 600
tgctactccg ttattgaaa gtggcgggtt gaatgctctt ttgtgaagcg gaccgagcaa 660
gtttgagttc gcggagtcca cccgagcaga agctttcacc gtgatcgctt gtcggcgagc 720
cgtatgactc tgggggggta tcaggcgttt tggttttgat ggagcggagc tcacgtacgg 780
tgcgctctag ccgctgacga tcgcgatacc cgtcttgat acggccgctg gcttcgcgga 840
gttgttcgcg gagcgaggcc gcttcctgtt cctgttcacg gatgcgccgg gtgaggtcga 900
gacatcggcc agcttcaacg gagtacatgt tcttccatcg ctcgaggtcg tcacgcagtt 960
gatgcttggg ttggtcgata gatgtccgcc tggttgaatc taccgttgcg agcttttctt 1020
ctgctttgct gaggagttct gatggcgag cgtctgcgtt gttttctttg ataaattcga 1080
gcattgatcg ggcgagtgt tggctctcct cgcgctcctc gcgctcacgt tgtagttcgc 1140
gcgaaaggtc tgcttggtga cgttgtaggt cgctgagtgc catcaagagg tcttcaatct 1200
ggctgtgaag atcgcggtcc ttgttatgag acatagcgga ttttgctcgt ggtttctgag 1260
cctcaactga tagttcagtt ggcgctgtgc tggcgtccga cgtcgactcg accgagttaa 1320

gcgtggaggc catactttgc ttggagggtg accgccgaag attgttattg gggttgagat 1380
 tgagtgattt gacggacgtg tgagggccag agccggccca gaaccggcca aggaatcgag 1440
 aagctgcggc ctgcatctgg ggaaaggaga taccagtagg aacccttgg gactggttgt 1500
 aactggcctc cagtgcctga aggttttctt tggtgacaag agtggttaga gagacaaagt 1560
 cgtaaacgaa atcgtcggcg tcaaaagcgt agctatactg gtcagtgaga gtcgtgtatt 1620
 ttaggacaat acttacgtat cccagagact tctagaaagc agcagttgca tgacatcttc 1680
 aaactctgaa cagcccatga tcttttttct gttgcgcttc attagcgaaa gcgcgacgcg 1740
 catcaaagtc tcgcaggcgc cttccaagaa gatgacatcg tagatccgaa ggagcatcgg 1800
 catagggcag gagacagcaa agaacgacag gaaccactgc gagacataga caggctcaac 1860
 acccagtgtc tctaggtgtt cgaagagggc gggtcgaagg cgggagagga gattctggaa 1920
 ttggtacacg cggaggtgca gacctgacag gtcagggaga tagcaggtcc gcaaatcata 1980
 atggtccata agcctgcaac tattagcgtg attcgttcga cgatgcaggt caacttaccg 2040
 cacaagcacg cagaatgctt ctgcatccgt catgtgcatc aacaatggcc caaccacaaa 2100
 gcccaagcct tggcagtaac ctatcttcgt gtcataaaga ctgaagcatt tgagcacacg 2160
 gccaaagcatt cgttgtcctt cggcgtttgg atcgcgaaac atctcaacat tggggaagct 2220
 acggccaata tccttcccaa tcaatccctc atacgggcta gtctcgccgc atagcttctg 2280
 gtactcgggt aatagcgaag gatcccttgc gcccgacaag ctcggccaga cgacaccacg 2340
 caaaggaggg ggaactcgc ctctaattct attcgacgtc aacgtcggaa gtcgctgcac 2400
 tgtttgcgga tagtctgcaa cgagcgcggc ccagaattca agttccgtca tgggcggagg 2460
 tgggagttgt gaaatccgga gagaggatcg agggctctcg tcgatcaagc gcttgatctg 2520
 atgcagggat tgcgatcgag acggacgtg ttgtgcctgc tgtgcggcaa ccctggcaag 2580
 accagatttc gggttcgtaa ccagggcatt gttctcttgc tccaggcgag ctaacaacag 2640
 ggcagttgtc tatgaatgtc aattctatcc ctcccatgc cattttctcc agacatacct 2700
 catcagatgc ctccatccga ggctcctgct cctctgtttt ctccagctct tcccagtcca 2760
 ctgcatcacc ttcgagccca tccggccggt cagtttcttc gctgatacgc gcccgagcga 2820
 gttccgatcc taaatccggt ttcgcagagg tgggtgtggt ttttgggctg atctcatcgt 2880
 cggaatgtgt cgtagcgtgc acaggggtct gaggaatctc aagggtccgc cagtcggggt 2940

gagtgtcttc tgaattcgac gacagaggca cggttacat cgaatctgtt tggtagagccg 3000
 tacggaccga ttctgaacta gggcgtgacg gggctctgctc ggaacgttcc attgtcgcta 3060
 gtcttctctc aaccaagggg tcaatgagcc tcgtcgatca aatcgagggg tgaaacacga 3120
 gggttggagg ggtcaaattc ggaagtcgag atcaggtcga gaagctgccg gtgggaattg 3180
 gacgacaaac agcggcatcg ctctgtggcg tagaggcgag tggtgactca attcgaagtt 3240
 gaagaaggag aaacgaggaa gagacggcgc gagttgaaag cagtatggta aggttagtta 3300
 acttaagtgg tggtagtct ggtgctctaa gtgggcttca cactcagggg gcgttgcct 3360
 gattgggact ccaccaggtc tcgccctggc gatcgtcaaa ttattatcag agcgacaata 3420
 ctacgtgtg ctgagactca gtctattatt ctatgtctaa ggagagtata ttaagggatg 3480
 ttccgtagtg ttgcttecta tttggtgttg gccatgtaga agagggcaga atcgtgagct 3540
 ccaatagact ctctgatct ccgcacagaa cacaacagta caaccatgga acctgaaact 3600
 ggggtgtctg gacactggag cccctcagga accgccttcg aactcacgat acacgaggaa 3660
 accatgtctt cttgaaagtg catatgtcat gacgtaaaaa ggatactgac agacctcgct 3720
 ccaggggcga ggtaccgagt ctacttagga gaagggttct agcggcctcc aatccgccct 3780
 tcgaaatcag cggtaatgta atataacgtc gcatgatcgt ttgagcctta atggaggggtt 3840
 cacagcacgt ctaatgagtg gacatgtaat ttatcgggac tcgttgattg gctctcatga 3900
 aatagattac actccgacat accgctgcat accgacattt tgaaacaaag cccccccaga 3960
 tgtttaacta atcaaaactg gcagcagtag taggtcacga taattttcta tcaagtgggtg 4020
 tactcagagt agttatgcag tataacgcta gacactagca tcttccgcag ctgcggaaaa 4080
 gtagtaccat atacatgtta ccgtatatat agggcagatt gtagtcagtc tgtatttgaa 4140
 ggagctggga gtaactaata aatacttcaa gcacaattat atatatttcc cacaacaact 4200
 ccgcccatta ctgataggaa ctaccgata tttgaactta cttgagag 4248

<210> 1874
 <211> 2260
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1874

aactgtcata gaaattgtat caccggtgtg aggagacgtg tcaacaacga gagcgttgta 60

acaactccct ctacaccag cctgagacat cctcgccatc cacaacgccc tctccaagat 120
 cagcccttac ttctccattg ccgctgggtt cggtaatgtg cacgggtgtct acaagcccgg 180
 caacgtccgc ctccaccctg aactcctcag caagcaccag gcctacgtta aggagcagac 240
 tggctccaag aaggacaagc ccgtcttctt cgtcttccac ggcggttctg gctcttccaa 300
 ggaggagtac aaggaggcta tcagctacgg tgtcgtcaag gtcaacctcg aactgacat 360
 gcagtacgcc tacctcagtg gtgtccgtga ctacgtcctc aacaagaagg actaccttat 420
 gtcaactgtt ggcaaccctg acggcgagga caagcccaac aagaagttct ttgacccccg 480
 cgtgtggatt cgtgaggggtg agaagaccat gagcaagcgt gtccaggttg ctcttgagga 540
 cttcaacact gctggcaagc tctaaagcag ttatatgact ttgcaaaata ttttggacat 600
 tcatgattat acagatatga ggcgacgaga taccaatgaa agtgtatagt cttaaaaagc 660
 aaaaggttgt tagtagattt ggagatggcg ttggcatggt gtaggtatag tttaaaacga 720
 tatcaaaatt atcgttcaaa gcgaatgaac agtaggccta ataagttgat gagcgaatat 780
 gtgttttgtg ttacaaccac tacgcaaggc gataagaggt agattgttga tagctattcc 840
 agctagaccc ataggagcat agcactaggg agcagcatct ataatagaac ttatggctac 900
 aatgctgagt gtaatcaaat gttcattttg ttcaatgaca agcaaaatgg tagaaaaatg 960
 gaagatataa agatgtcaat attattgctt catcgctgc tcaattctgc ccataatcct 1020
 tccttctcgt tcagaaatta agacggatca tccaagtcgc cgcattgacca tccttgctgg 1080
 gtttactcaa gcgggggttg tgcattggaa tgctacggta tcaattcctc acccggccat 1140
 cacaattatt cccatcatca ctatcatatc tcccctgtgg ccattgctgt ctacattgt 1200
 gcaacagcag accagctttg aatacaacga gatggcctct gttacggagc accctccaac 1260
 gctggagcaa attgaagcag atcaagacga atatgatcgc ctattcacag caaaagtgga 1320
 ctctttcgat gttccaacga caactcggcg ggaactgtgg tcctattacc ttattataa 1380
 tggtagacat ggacggtgtt aatggtgccc ttacagtact gctactgatc gactctctaa 1440
 catctaggag acaacggagt aggcctctt tcgtataccc aagcattgta aggccttgct 1500
 ccattcttgt acaagcattc ttgaccgtct aggtttcaat ggtcccttaa cggcgccggc 1560
 tggcaaccag ggaccacgcc ccggcaaccc tgcaccgatt cgtctccttg cgtagtcctt 1620
 tgggccggag ggacacgaac cgtctcctcg attgtgttga tagcaaatgg cctcagcttc 1680

accttcatga caataatctt tgtctggctc gggagtgccg cagactacgg ctctttcggg 1740
cgctgggttg tcctcgctct tacagtcgtt tgctgggctt tgcagtatgg gacgcttgct 1800
atcagagagc cgactcagtg gcccgcgcgt atggggctgt atatcgtgac gtatgttgcg 1860
tatggcgcaa cgctgggtgt ttatgccgca atgttcccgag agcttgcgag gtatatgccg 1920
catgtcagga aggcgagggg ggaggatttg agagagggga ggatcgatca aagggattat 1980
gatgctgttg agtccttgga gaggaatcat atttcgtgag cgtgggttctg gttcttgata 2040
ttgatgatac tgatgagaaa atgcaggaat atatccacag cacatagtaa tattggctat 2100
ttggccgtgt tgcttctcaa cctaagtgtt ctattgccta tgcagggcaa taactatgcg 2160
aataatttag ccatctgtct gacgaactcg tgtgcgcaat cttcctgctt gggacttaa 2220
cctgcaacta atatagcgtc agattggggt gtcttggggg 2260

<210> 1875
<211> 1721
<212> DNA
<213> *Aspergillus nidulans*

<400> 1875

cataacctat tattctgtac aatacatttc agagaggata gcactaaaaa ccataaggca 60
aagccatttt ccttgctctg ttcagtgtcc agttgtattg aggccggaaa ctagcgcttt 120
acttcttcac ccggccatca cgattattcc catcatcact atcatcatct ccccggtggc 180
cattgctgtc tcacattgtg caacagcaga ccagctttgg gatacaacga gatgaccttt 240
gttaccgagg acccctcaac gctggagctt gattgaatca ttctagcgca ggatttcacc 300
cagatgggtca gtttatgtaa taaaatctta cattgtagca aatgaatata cagatgaaga 360
cagcaaatcc tgattacggc gataatttcc tttagcgtag tccgctgtgc atgactgctc 420
aatcagaaag ggaggcggag tctctaagca aagtatgtag gtaggccagg tggaaagctc 480
cctaagaaac aaatccaacc ggtttcctta acgatcccggt taacaatatg ttaaacttaa 540
cagagagatt cctctcatca taattgcac acgtagacat gatcagaaaa gtgataagtc 600
caggaacaca ggcacggagc catcttgaca ccttggtagc caacactcta gctatcttag 660
atgcactaaa catatctgta aagcagtatg actgcacagc gggaaaccct tgtattcctt 720
caagctgttg ataatgctgt ggtccgtggg agattcgtaa tcccagtgtt ctaggcgctc 780

tcgacaactg ttatTTTTgaa tggtagctct ttatgtatat aaattatatt ttatctattg 840
 ataaccctgc gcagtgtttt aaaaaaagac ttctgttcta tttgcaggaa gttataagct 900
 aaggatctct attcaccaac cccagctcca ataacatatt gcctaacaac aaaaagtagc 960
 aatcggcata gacaaggcca tggctctgcc agcgccgcga cgcgaaactcg taattgcaaa 1020
 cagtcgctgc gtcgaggatc gtttcgggga atttgagtgc agacctcgat ctatacccat 1080
 tcataccagt ctcaggccct gagagaccct cctttgccga aatggtcaga cgccccggct 1140
 gtcggcagga tacgtaggga ggcttggcgc cgactgagcg acattgaact ccctggtgac 1200
 gaggtcatga acttggaacac tgtgccctcg agtatgcga gtgcaaagtc aagatactac 1260
 tccacgggct ctacgtccgg cctgtcctta ctgtctttca gtgccttgca caacagaact 1320
 agcccgcaac aagctaccat cccgcgagcg taccggggac aggactcatt accgggcatt 1380
 gaagcccagt ccggactggt tcggaggtag tgctcatgaa ttatcgcgag tcttagccgc 1440
 tgagaaccag ttttcgggtc aacctccatt ctgaaccaga aaccagttt gccggactca 1500
 aaattcgctt taccctgtgc gaatttgccg gagccccggt taatagcccc gtgggccttg 1560
 tgcggtggga gcccctccca tgtatgcacc ccagagggcc ctttgccctcc aaaatacgtg 1620
 tccttttcta gacctgttcc ttatcctcct cttcctctta ttacacttat ccctctcccc 1680
 cttctctact tctcttact tcttactttt cctattcccc c 1721

<210> 1876
 <211> 3049
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1876

catttcaagg ttacaagact gcggaagttc tggcaggcgt agacggcgtc ttcgccgagc 60
 tcctcctcaa tacgaaggat ctggttcagt ttggctaaac gctccgaccg ggcaggagca 120
 ccagtcttga tctgtccgga gcggagaccg acagagatgt cggcaatggt gacatcctca 180
 gtctcaccgg aacggtgaga gaccatgaca cccagccat cggcgtagga gtccttggcg 240
 gcctgaatag actcagtcag ggtaccaatc tggttgacct tgagaaggag agcgttgcag 300
 gacttgagct caatggcctt cttgatacgg agaggggttg tgacagtcag gtcatacta 360
 ttaactagtt agatcagtta ctaggaaaaa gcggattgca atacataccc gacaatctgg 420

aagtcagagg tcttgtagaa gtagctccag gcctcccagt cgtcctcagc gaaaggggcc 480
tcaatactga caatggggta cttggcagca agggacttgt agaggtcggc aagctgttcg 540
tatgtgagcc acttgagggg gtcgctgtcg gggttcttga agtcgaggtc gtatttcttc 600
tcctcgggct tgtagaactc gctggaggca acgtccatgg caatgtgaat cttgccggtg 660
tagccggcct gctcaatggc ttcgggtgat aggtcgagag cttcttcagc ggtctggata 720
tcgggagcaa caccgccctc gtcaccgacg ttgccagcag actggccgta cttcttctta 780
gcaagagcct tgagcttgtg gtaaacctca gcaccctggc ggagaccctc ggagaaagag 840
gaagcagtgc tttccatatg tcagtatact tgaacgaatg caaacggccg gcaagaaact 900
cactcaggaa caatcatgaa ctctggaaa gccaggcgac caccggcgtg ggaaccaccg 960
ttgaggacgt tctggaaggg gacggggagg acgtagggct tctttgttcc agccaagtcg 1020
gagatgtgag cgtaaagagg gacacccttc tcagcggcac cagccttggc gatagccaga 1080
ctgacaccga ggatggcggtt ggcaccaagg ttgctcttgt tgggagttcc gtcaagcttg 1140
ttgaggaact cgtcaatctt ggactgctcc ttgacgtcga ggttctcctt aatgacggcg 1200
gggccaatgg tctcattaac gttcttgacg gcagttagaa cacctatttg agaaccattg 1260
ttagaggtcc ccatctcgta tcaaacttgt gggagtgggt gcaaactac cttttccgag 1320
ccacttgga cttgtcgccat cacggagctc gtgagcctcg tgctgacctg caattgaagt 1380
taggaacgtt tgtttttcat caatcgacgc atgctcaata ggttacacac cggtagaagc 1440
tccagaagga acaatagcac ggtgaagacc ggtctcgggt acaacgtcca cctcaacggt 1500
ggggttacca cgagagtcgt agactgagcg ggcgtggatc ttggagatag gcattttgat 1560
gaactagaag gatagagtca gaaaggagaa aaaggggaaa attttgagg acggagaagt 1620
taacaaatat aacagaaagg ggaggcgaag agttgctggg agtgatttag caggcgggga 1680
tgtcgttcac cgatggccca aaaagaatga tgccagcagg tgagcgatgg agtcatccgg 1740
tcaatcgctg atggatcgag accgcctgga ctcatcctta ggaagaccgc aatgtgaagg 1800
aggcataccg acaggccaat gctggtgtag ctgtgatgat gatggtatgt tgctgatga 1860
tggggagagg tcaagcttaa gctggtggga tgggtggggt gaagaagagt atacctagga 1920
ggcggatgta aagagacggc acttaccaa ctttgacgg acggggagag tagtaaaaca 1980
acaacagcaa tttggactat agggagcaag aattcgatgg aaagcagctg gttcttgtat 2040

tcctacgcaa gttgtctggc tccgagtctt tccaaggtga tgggtggggca gccactgcct 2100
 gtttgttggc tcaggaggct tactgacgct ctacagcgag atctcccgta caccctcggc 2160
 gcaaggcggg tgacaggatg ctcgcgagaa ccaatccacc ttgtttgagg taatcactca 2220
 gagtagacgc cggcgtgac gtgactttat tctatagtgc gctgatgcct ctcaaaagcg 2280
 ctacgatgcc gtaggatctt cgtttcgtaa cgcagctggc taaaagacgt gctgtgctgt 2340
 aacctggtag ttcatatgcg aatcgaggtc aatctacaaa gaatgctatc tagccatgca 2400
 agagcatgcc atagtatcac gcagcccgca attcggcaac ttcgttgctg aatgacggcg 2460
 aaatagagtc ggggtcaaag ttgatacctt aatgcctgac agctaccgga taatagttac 2520
 tacgtaacgc tcggcttgaa catggcctat attggcctga atttaatggc atgaatatag 2580
 tcatgtgacc gagtccgtgg tggtagctca ggcgagctct caagctaagt ccagataccc 2640
 ttttatcagc atctccgtca tcgctccatt cctctcgac cggcaagcag tctcttataa 2700
 cgaataaaact gtggtcactt gaaatcagtt tgatccagca tcgctgttaa ccatcgattc 2760
 acgatgaacg gtgctgttga tcccgaagg gagcaggcac tggaggagta caagcggagc 2820
 ctactggatc tccgggaatg ggaggctaag ctcaaagcgc ttcgtatggg aataaaggac 2880
 ttgcaaagag agtttgatat ttcagaagaa aacatcaaag ctctgcaaag tgttggtcag 2940
 attattggaa aggtgctgaa gcagctcgat gaggagcgat gtacgttctt ctgcgacgaa 3000
 agattctttt attatattcc acacgagagc agctaattctt agaagtcac 3049

<210> 1877
 <211> 1104
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1877

agagtctggt taaaggatag ggggcggact tcggctggtc ccaggggggc gacctctggc 60
 gggacattga ggagtttgta cgcaatgctc agaaggggaa tggacaggcc atgaacgaag 120
 atcgagaata acacgagcca atatattgct agggatatagg ttagattggt ttgagagtaa 180
 gtgattccaa ctacttggt ttgagggcgc ccattaagcg agcctccatg gcactaccct 240
 cgcctaccgg aggggaataga tgggaggtgt gttcggcgta gaagacagca ccaattcctg 300
 gcaccgcgtt aataccagtt ccgtacagac caagtattga cttacctatc ggtccaaagt 360

agcccataaa caaagcctcc ttccagttct tgcagacctt gggcataaac ctgtacaaag 420
 cgagcgtgct gggaatgcgt cgaaagagga ggacgatgaa gccaagaaga atcagccggg 480
 gatagtgtgat tcctgtggtg tctggctggt ggaagtcac ccatggaatg acggctccaa 540
 tatacatgaa tccaccaaag ttgaggagaa cgtcgataca tgaattgact tcgtcatggc 600
 gggcttcggt ttctgccaga tagccaccgt cccaattcag cgcaccacca gcaaataaac 660
 aggcgaggag atcgttcgtt ccgacacaac cacacgttcc aaggaggaat agctggtaat 720
 ggtttaggtg tgaacacggg ttgcatgaaa aggacttact cctaacgcag ccgggaacag 780
 cacgtagctc tcgccgtcta tccactttct gaaacgggtt agcatcctca aataatggta 840
 tcaggtatag gcccgtttta ctttcggagg gtataccgca gtaggcgcat actggcatag 900
 cccagggtgg cgccataaac cacgccaagg atgatgtagt aggcccaggt ctcgacaaac 960
 cacatctcca tcgctttcgc aagcccgcc tgcatatggc ctacatcttc cgagcgcgcg 1020
 acatgagcat gggccgtgtg gtccctgaacc ggatttcctt ggggtatacg agcagatagg 1080
 tcgctagcac agaaaggga acca 1104

<210> 1878
 <211> 3122
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1878

tttagctttc gttgtagctt ctccatcatt tatactatct ataagcacct ggttcacgat 60
 ggggtgaagac aaagaaacaa atatcctcgc cggcctcgga aacaccattt cccaagtaga 120
 aaacgttggt gcggcatcgt tacgaccttt gccaacggca acgggtgatg gaacctacgt 180
 tgccgaatcc actcagacgg gcttagccaa agatctgagc catgtcgacc tcaaggatgt 240
 ccgcacactc gccgaagtcg tcaagagtgc ggctacggga gagccggttg atgacaagca 300
 gtatatcatg gaaagagtga ttcaggtcag ctgagattcc aacaacaagt atgcgcaggc 360
 tctgaggcta atcaacatct agttagctgc tggcttacca tcgacatctc gcaacgctgc 420
 agagctaacc aagtcatttt tgaacatgct gtggaatgac ttggaacatc caccagtttc 480
 gtaaggaacc aggagtctgt aggctacctc ggctgtctga caaatatata gttatctagg 540
 agctgattct atgcaccgca aagccgacgg ctcggttaat gtagattatc ccagttccag 600

tcttctacct actgtgctga cttttcgatg atagaatcgt ttctggcctc aacttggcgc 660
tgctggtagc gcgtagcaa gatctgttcg gccaagacg atgcagtctc catccctgcc 720
cgatcctgag actattttcg attgcctgct ccgccgaaa gagtacaggg agcatcctaa 780
taagatatca agcgttctat tctacctgc ttcaatcatt attcatgggt agccagtcca 840
gtgattgaag gtaatgatgg gtttgctaata tatcttcgaa gacctattcc agacagaccc 900
taaagataat tccgtgtcca agacatcgtc atatttggac ctctcacctt tgtatggcaa 960
taatcaagac gagcagaacc ttgttcgtac gttcaaggat ggaaagctta agccagattg 1020
tttcgctacc aagcgagtgt tgggctttcc tcccggcgtc ggcgttctac tgatcatgtt 1080
caaccgcttc cacaactatg tggttgatca attggcggcg atcaacgaat gcggccgatt 1140
caccaaact gacgagtcca acgttgatga gtatgctaaa tacgataaca atctcttcca 1200
aaccgggcga ctggtgactt gtgggttgta cgcaaatatt atcctaaaag attatgtccg 1260
aacgattttg aatataaacc ggacagatag cacctggagt ttggaccca gaatggaaat 1320
gaaggatggt ttattaggtg aagcagcagc aatggcaacc gggaaccagg tgtcagccga 1380
atttaatgtc gtgtaccggt ggcacgcttg catttccaag cgcgatgaaa aatggacaga 1440
ggattttcac cgtgaaatca tgccgggagt ggatccaagc acactatcga tgcaagattt 1500
tgtcgcgggt cttggacggt ggcaggcagg actcccacaa gagccacttg agcgcccatt 1560
ctctggctta cagcgtaagc cggacggtgc attcaacgac gatgacctgg ttaatctgtt 1620
tgagaagagt gttgaagact gcgcagggtgc atttggtgcg tctcacgttc cagccatctt 1680
caagagcgtt gaagctctcg gtataatgca ggctcggaga tggaacttgg gaacgtcaa 1740
tgagtccgc caatatttca atctggctcc tcataagacc tttgaggata tcaactccga 1800
tccgtacatt gcggatcagc tcaagcgact gtatgatcat ccagatcttg tggagattta 1860
ccctggtgtt gttgtggaag aagccaaaga ctccatggtc cctggaagcg gcctttgcac 1920
gaacttcact atatccaggg caatcctttc ggatgcggtg gcattgggtc gcggtgatag 1980
attttacact gtcgactaca ctccgaagca cttacgaat tgggcctaca acgagattca 2040
gcctaacaac gccgtcgatc aaggtcaggt attctacaag ctggttcttc gcgcattccc 2100
aaaccatttt gatggaaatt ctatctatgc tcatttcccc cttgtcgttc cctcggaaaa 2160
tgagaaaata ttgaagagcc ttgggggtgc cgagaagtat agctgggaaa agcccagtcg 2220

tatctctcat ccgattttca tcagctctca tgccgcgtgc atgtccatcc tcgaaaatca 2280
 agaaacgttc aaggtgactt ggggtaggaa gattgagttc cttatgcaac gcgataagca 2340
 ccaatacggg aaggacttca tgctgtctgg agaccggcca cccaacgctg catcgcgcaa 2400
 gatgatgggt tccgccttgt atcgcgatga atgggaggct gaggtcaaaa acttctacga 2460
 gcaaacaact ctaaaactct tgcataagaa ctctacaaa cttgcgggcg ttaaccaagt 2520
 cgatatcgtt cgtgatgtgg ccaatctcgc ccaagtccac ttctgctcta gcgtcttctc 2580
 attgccactg aaaacagact ctaatcctag gggatatctc gcagagtcgg aactgtacaa 2640
 gataatggct gcagttttca ctgccatctt ctacgacgca gatattggga aatcgttcga 2700
 gctaaaccag gccgcccgtc ctgtaacgca gcagctgggc cagctaacta tggccaacgt 2760
 cgagatcata gccaaaaccg gcttgatcgc taacctcgtg aaccgccttc accggcgcgca 2820
 cgtgcttagc gaatatggca tccatatgat ccagcgtcta ctggatagtg gtctcccagc 2880
 gacagagatt gtatggactc atatccttcc tacggccggt ggaatgggtg caaaccaagc 2940
 acaactgttt tcgcaatgtc tggactatta tctctcgga gagggctctg ggcattcttc 3000
 tgagatcaac cgactggcca aggaaaatac cccggaagct gatgagctac ttacacgcta 3060
 gtacgtaacc tctttgttgt ctttcccgaa cgcgcacata cttaccggag cagtttcatg 3120
 ga 3122

<210> 1879
 <211> 3275
 <212> DNA
 <213> Aspergillus nidulans

<400> 1879

tcaggaaaac catgatgac gagtctctcg aaaggtgtct ggcaataatt tggcctaata 60
 ataccaatat cacacagatc tgcaggagta cctcgatct tatgtgtccg atgacgacgg 120
 aacccttcga tatcaggagg gtatcctggg agaggcgcta cggaacggct actggattgt 180
 ccttgatgaa ctcaacttgg caccctctga cgttctggag gcactcaatc gacttctcga 240
 cgataaccgc gaactgttta tccccgaaac acaagaagtg gtccatccac acccgaattt 300
 catgctgttc gcaactcaga accccgcggg actctacgga ggcagaaaag tactttcccg 360
 cgcgttccgg aatcgtttcc ttgaattaca cttcgacgat ataccagaga gcgaactgga 420

gtatatcttc aaagaacgat cacaatatgc gccatcattc tgtaccagga tagtcgctgt 480
 gtatcgaaaa ctttctctac tgcgccaggc aaatcgggta ttcgagcaga agaataagctt 540
 cgccactctg cgtgatcttt ttcgatgggc cctccggcaa gcggatgaca aagagcagct 600
 ggctataaat ggtttcatgc tacttgacaga gagagtgagg aaccctcagg agagggctgc 660
 tgtgaaaggc gttattgaag aggtcatgaa ggtcaagatc gacgaagaag tcctttacag 720
 cacttccgag ttagataagc gtgcaccatt gctaaggcaa ctgaccctg gaatcgtttg 780
 gaccggggct atgaggagac ttttcatact ggtttctaca gctcttcaga ataacgagcc 840
 cattctcctt gtgggtgaaa caggctgagg aaagactcag ctgtgtcaag cggttgacaga 900
 tgcttaccag aaacaactgc acattattaa tgcgcatgta aatctggaaa caggcgatct 960
 tattggagct cagcggccag tacggaatag atcggctatc gaagacgcca tgctcaacga 1020
 ttgcggaata ctgttgcaag acgagtcgaa gccgttcgag gagctgaagc agattttcgg 1080
 cacactcagt gccgaacagc gactagagtg cgatccacag ctactaaaga agatcgaaaa 1140
 gaatcttgct cgattaaatg cactttttga atggactgat ggaagtttga ttaccgccat 1200
 gaagacaggc cagttcttcc tcttgagcga aatatctctc gccgatgact cggtgctgga 1260
 acggcttaat agtgtgctag agcctcatag atcgatactt ttggctgaaa agggcccat 1320
 tgactctatg gttgtcgtg acagcggctt ccagtttctt tcaaccatga atcccgagg 1380
 cgactacgga aagagagaac tctctgctgc cctccggaac cggatgacag agatttgggc 1440
 tccgcaattg tctgaagatg aggacattct tccattctt caaatgaaac tagagacgca 1500
 attggagcaa atccctcggg cgatgttaca atttgcaaaa tgggtcaaac gcacgtttca 1560
 aggtcctca accaattcac tttccattcg cgatctttta gcttgggttg attttgtaa 1620
 taaatgccag ggctcggatc ccttgttcgc tattattcaa ggtgctgcaa tggattcat 1680
 agacacactg ggtgcaaacc cggctgcgat gctcgcaacc acgttgata acctgaagg 1740
 aaatcgaaa ctgtgtctgg acaaacttga ggaactattc aacgtggatg cgtcgaatat 1800
 ctatatgcaa aaatccgata ttggtgttca agaccaggca ttgcgtattg ggccctttta 1860
 cctcacaatt cagggatgag ctcaacctga cccgatttc atcatggatg cgctacaac 1920
 tattgccaac tcagtacgca ttgcccgtgg gctgcaatta gcgaaaccaa ttcttcttga 1980
 aggtagccct ggcgtgggta aaactacgct agtgactgct cttgctcgag ccctcgggaa 2040

accgcttacc cggattaacc tgtctgagca aacggacctt accgatctat ttggatctga 2100
 tgtcctctgtg gaaggtggcg acgtaggtea gtttgctgg cgggacgccc ccttcctaca 2160
 agctatgcag cgtggcgatt gggactcct agatgagatg aacttggcct ctcaagtctgt 2220
 gcttgaaggt ctcaatgctt gtcttgacca ccgtcagatg gtctatattg ccgaacttga 2280
 ccaaactttc aaacgtcacc caaatttcgt ccttttcgcg gcacaaaatc cgcataacca 2340
 aggaggcggc cgaaaagggt tgcttgcttc tttcgtcaac cgatttactg tgggtgatgc 2400
 tgacagtttc accgacactg acctgaaacg catctgtgcc agactgtatc ctggcagtc 2460
 tattacgcag accgagcggc tagttgactt tgtctccatc ttgaacgttg ctatagtcca 2520
 agaaaggaga ctgggagttc tgggaggtcc ctgggaggtc aatctacgtg acattcagag 2580
 atggcttcaa ttggctgatc gcgggacttt gcaaatacac acgaagaact tcctcgatat 2640
 aatcatctcc cagcgattta gatgtcagga agatcgagag cgggtccgcc acctatacga 2700
 acgtgtcttt gatggtgtct ccacggcagc caaaagtta tatcataaca tgacaacaga 2760
 atgcatgcag gttggccttg gagtgatgcg aagggatatg ttgctgcaag aaactcccaa 2820
 tccgcatctc aaggtagtgc cgagggatct gtctatcctc gaatctctca tgctttgcat 2880
 tgaacagtca tggcctagca ttctggtggg agcttcagga tgcggtaaaa caacattgat 2940
 aagaaagctt gctgccatta acggagccaa cttggttgaa ctagctttga gcgcggatac 3000
 cgatacaatg gacctcgttg gaggcttcga acagatcgac cacaacagag agacgtcggc 3060
 tcttttagag gatattttgc tgttcgtgag acgacatata ctctccagct gcccgctcca 3120
 aacctctcaa gaagagacgt atactttgat tgaactgtat gaacggctac agagccctga 3180
 cttgtcgtg gagctagtgt gcacgttatt agaaactgct cgccagcggt acgaggacca 3240
 agcattagag cgactactcg atcgatcgcc aaccc 3275

<210> 1880
 <211> 3190
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1880

atgctcgcct gatgccctc ggatcgttct tctggggcgc tcgtttgcgc aaatgtggga 60
 acgatgcgc caccaatcct tgaccagaac atcctttctc tcaagcgaac tgtttcctcc 120

cacgcctctt gcaactcgtc aggttcctcg gcgtggatat gaccgtcaag gatgagacgg 180
 aggtagcccc caaactcaca gcacgagcgt accttttcta aacagagaac gcacaatggg 240
 tatcgctgtg ctgtttcact gtcagatgtc cggaacgggt gagtgcgctc attatcggtg 300
 ccaactccgc gttcgccaca gagagaacat gggaattcgt attttcgaac atttggtggt 360
 accggctcta cgaccaggct tccttcacaa atactagata gcacgtttcg cctggtcagc 420
 caggatatcc ctggggccgc atcgagtctc aacgtagggt cgatatcttc cacaagtgca 480
 cgcttgtaga atcgtgcac cttcaaaggg acgctagagt taggggggtg aggccaagaa 540
 aactcccac tcggggaatg aggttgagat ttgacgggtg agggggagcc cgagccgaac 600
 cccgcaccac caaagccagc cagactcatg acgtttaagc ccgaatatga tccgctggtc 660
 gccctactgg ggggtttcga actcttcgat atagtaaaca gtcacgaaa atcctcgtaa 720
 gccaatatgt cggttcggca tacagttttg atgagatcag gaaaacttgt agcaggaccg 780
 ggtgctatct cggcgcagac aacatcgcca gggatatctg tagcttccat actcttccta 840
 gtgaaggcgg gaggttgga gggaccagcc ggagaagggt gtgctgtgga gattgctgtg 900
 cgaccatcga gatcgtcctt ggaaatgttc attacctgaa ggactgattt caattcggct 960
 aattgttctt ggtgcgaagc gagaagcgac tctgtgtctt tgatctgaga acgtaactgt 1020
 tcattcttct tctccacagc ctgcgctcg agcttggcag cagcaaccat ctgtggaatg 1080
 atttagaaaa acagctttaa ggaaccatgg ccgagtatat gtcaccttg tttgcttctt 1140
 caaagagagc cgcagtgagt gtttctagct cttgctcgat tcccttttct tccttctcct 1200
 ccaataaacg ctgagccttt tcttctgcca aagaagcctt caattggtca acctcagctt 1260
 tcttcaccag cgctccgtct tcaatgtctc gccagtattg ctcgttttcc gactctaacg 1320
 cgcgggcctt ttcttgact tgctctaact cctggcgagt aacggccaaa gtgtcatcga 1380
 gttttgtctg attgttaatc gcttgaacaa gttttagact aagtgttgca acttcgtcat 1440
 taagggtccg gtgatgtgag gacgatagag tcgactctgt tgattcagaa ctgggcagaa 1500
 gtcttgggtc cctcaaagtg ctgaagccgt cccaccttc acttgaggaa cgaacagtgg 1560
 ccggagggtc tgcggcaaca cggagaagat catttgtgga cttggccttc gtaacatgcc 1620
 tatcaggcga agccgaccta ttcccggatg acagagaccg tttgtggctg gatgggcgcg 1680
 gtaacatgtt tgacggcgag aggaaacctt gatgcgaata ataagagtgg aaggcgatca 1740

gactacatgc gaattagtag agcttcatgg aagaatacga tcgacttagg gttgaagact 1800
cactcggcca tggtagcgag aatgatctga tcgtgaatcg gcaagataag gtagtgcggtg 1860
accagatcga gacgtcacgt atgcgaggt atttagtccg cccgtttgat gaaacgatcg 1920
agtcgacaaa ggagtgaggc tgtagattag gttgtatcag tatatcgagc tgaaggcgat 1980
tgcgatccg cgcgtaactg gaggaggcgc aaattggatt cagataggac gcattgacgc 2040
gggacaagga atgaagtcag ggccgggaag gagcggatgc gcaggagagc gaaggtacac 2100
tcatggagat cccagggacg agattaattg aaggaaggaa tgcaaacgac gaaaggaaga 2160
ggagtggag atgtaacaga cccctcttcc acggcggcta gcaggagatg cctgggtggtg 2220
gaggaaagcc cgcactcgca cttcgtactc ggagcttcgt caccctgtct ggtgcattac 2280
tagtggcggg tattttacct gatcatgtga cggggcctct aagagggttc tgccaacctc 2340
gtcatgggta gacgtgagaa atacggagta ctagctggta ctgtatttaa tttgtagtct 2400
gagtaatcct acgtcaccca atgattaccg agactaaatg accaacttgt actgtatgtt 2460
atgcgtatgc taatcatgca aaacatggtg aagcggcgat tctgctaagc cccagcctt 2520
agcttgaag ctcagcaacc ggcgaaggga tctaggcct tccgggagtt tgcctcggat 2580
ggagaccgac tcagtccta gccttgaaaa acgtcattt attgtccctt gttggtgcgt 2640
gcttgaatct cttcaatgag gttagtataa ataggtcgt gccgttgacg taagacactc 2700
acaggctgtt cgcataatat cccttcgacc atctagtcac acaagtcata cttgttgaat 2760
atcgtagag caaaatagga gcacagaaga cggggttttg gagtaccgat tactgcatca 2820
ggatatcttc atgcggggct tgactgcttc gagctcaaac caaccgtttc ctgactacag 2880
aggcgggatt aagcagactc atacatcagc caatggaaac gtcactgtcc cttatcattg 2940
aagctttact gcagagtga acatgcgttc gatggcgcaa tcccacctcg tattcccggg 3000
atttcccgt acacggcata ctctgagtaa agacgatcag taaccatctc cctggaatct 3060
tggtggccc cgccaatctt ttggccttgc agcctcaggc cgcaaattaa agtggggttt 3120
tggggtttga tcgtccatcc aacacgcaa atcttcagga ccatattata cgatacttac 3180
cccgtgtcct 3190

<210> 1881
<211> 2983

<212> DNA
 <213> Aspergillus nidulans
 <400> 1881

```

ggaatgcacc tgacgggttc gcgaagaata tgcgtcttc tgggtgggag ttttttgact   60
tcgtcaagag gtctagcagc gacgactgcg agtgacgcac ttggtccgga aagcatcatc  120
cgctagagat aatgcaaccg caggccacac taaccaagct tttcgaatat tcccaagcta  180
tgttactact tgctctgttt gtcgagtagc tcctgaaggc tagtcctcgg cgagcaaacg  240
tcattcctat aatgtacacc tgcgtacatt agttggtacc gaagttcgag aggagacggg  300
atgtcacctt ttcataaacg caaacgcatt tatcgtcact catatcagga tcagatctaa  360
gattgctaca gtcctctctaa gtggagcaac agcgtcttct cgcagaagtt catagtgggc  420
tttcagatac gtatctctcg atgccaagg ccttcaatct tggtcggctc gaggtcgacg  480
aattccccgg cgaagttaaa cacctcatcg gacgatggga gttctggctt caatagccat  540
ggctccgaat ataaagtgtc aggatcatgg gtgtgaagct gattgaagta attgcgtatg  600
tcttcggtaa cggttgcaac agtgcattgc ttcaaagatg cttgcctgaa cacctttggt  660
agatgggaat tgatctcttc ttctgagtcc atagtgggac tggattaagg aggtatgtga  720
gaagatgcac ctctgcgtta ggagagaagg aagaagaaga taggtaaccg attattatgt  780
gttagaaact gaacaaaaca gagcagcaaa caagacttgg actaaggccc agcagtcact  840
actaccagat tcacttgcta ttgttcctct gctgaatata ctattaatga tactctctca  900
tcgtcaaaac cgggtgttatt gcgactgtca cctcttttgc tgatttcgct gcagcaagac  960
gacgcattcta tatgcatctt tctttcaggc atcccagtca cccacatatt tcttaggaag 1020
caagacagtc tagccagcaa tccgcgaacg gtgtcgcacc cttatgaatg ataattggtg 1080
acgacggtat actgcggaat tcggtgttgg gttctgagac taacctgata tgggtgtacgt 1140
tacacctcag gcattcaaata acaggttggg aacgtgattg acgtcggaaa caataatgtg 1200
atcgatacct cgactggag ttgcggttga gctgccggga tatcagtcac tcctttgaac 1260
tcttatgtca accgtctctt tatttttctt ctctgacag cagatctatt cttattcata 1320
ggcgcggcga cgatagctcc ggaggccatg aggtcttgat ctccgcactc tcccaggctg 1380
cagagggagc aaaggctgcc tgcagcagag gagaaacagg acgagtcgaa taccctcgca 1440
tacgagctgt cacgttactt gtttgcgat ttgtttgcta atttccgcaa tctgcggtaa 1500

```

tactttcttcc aaaacacgat ggcttcaatt gtggaggacg aagacgatcg agacattgca 1560
ggtgagtcg ccttgcaatt cgtcttaagg ttcgagcggg gactaactcg tcggcaacac 1620
tctaggtcca caagatggaa gctcggataa cgacatggat gatacactca gagatgcgga 1680
cgagggcggg ggcgacaatg aacctgatat ggacgcggat ggcgatgcag acgaccagga 1740
tgccgacagc gcgtccaatg cgagccatgc ttctgaaagc gccgaagtag caacgcaaca 1800
gaaccaggag actacaatga ctccggttcc cgacaatgcg acgaccgacc taacctccgt 1860
tttccatccg agcgtgcgtc ccgaatgcct gacagcttcc agctacgata tagtccccac 1920
gaccgctgcg ccgcacagta cctcgattaa cgccataaca gcgaccgcag atatgcggtg 1980
ggtgtttagt ggtggctccg atggatatgt gcggaaattc aactgggtgg actctatcaa 2040
cagtaagctt atgttgactg ttgcgcaaag gcatccgttc gtcgacagcg tgataaaggc 2100
ggcgcttctg atgacatact gggagaacat ggatggaaat gctttatcgc cagtctattc 2160
gctggcctgt caaagcgaag ggctctggct gttatctggc ttggaatccg ggagcattcg 2220
actacagtct atacggcacg acgaaggcaa agagattgcc ctgttacagc agcatacctc 2280
agcagtctcg gtgctttctc taacgtctga tgagaaatca ttactttccg gtagctggga 2340
taagcgaata tatgattggg acctcaatac aggacaaacc agacgcgttt tcggatccag 2400
cgccggtcag atctcggcaa ttgagctacg ccctgagtc agcttgccag tccccagaga 2460
cacaactgag attcagcaac ctaatggaac tttctcatcc aacaatcagg cgagcggagg 2520
taatagcttc agctatatgg acacaacgaa tgatcagggc gacaacgacg cggatgaacc 2580
gcaggccgga tcaccagcag actcgtcttt tggaggagct gattctttgt tcggcgatgc 2640
agacggcaca gctggcgatg gactgggcac agcaaccaat tcgtttggca tagatgacga 2700
cgatgagttc ggcaaagctc ttaccaacgg tgtcgctcct gacgctgatg ccgctggcga 2760
accagacaca gtgcagcaaa aaaatctctt tgactcaaaa gatccttcca atgatgcccc 2820
cggcgtcgat tcaaacacac ttgtacccaa ccaaccgcta gattctcact caacggacgc 2880
agtaaataac caatcccaac cattagttaa cggccttccc cacgctgaag aactagaacc 2940
gccttcacag agccaagaac acactcaatc aacgccgaca gag 2983

<210> 1882
<211> 474

<212> DNA
 <213> Aspergillus nidulans

<400> 1882

accagtagga ttctcacctc aaagcccagg gaatatgcgc gcgacgccgc gccaggatgg 60
 ctggcaccta gtgtatcctg atagcgccctc acatcgccgt ctatgccatg atgcatgagt 120
 gcgcgcaggg ttgcgacgag cccaggaact gcaagccaca ggtatcctca cgccagagcg 180
 cgccacccgc cgaagggaag acacgggagt gcaacgagct atggcatctt tttgagaagc 240
 gaatcagcta gacatacccg caagcgccgc aggtcgtgga ccaggttaca aaagacagga 300
 ccgatcaagg ggccggcggc gaagcgggtca tcccaggagc gcaagccgta gagggagcta 360
 tagcggacgt ccgagaccca gaacggatga ttggacacga gctagcggac gagaggacaa 420
 gattgggtta ggcagggggc gatggcgcac gaagcgcagg ccgttcgggg aaag 474

<210> 1883
 <211> 3448
 <212> DNA
 <213> Aspergillus nidulans

<400> 1883

tcagcatcag ttggatgtga cgatgaccac gcaagggcac aacggaccaa taggactagt 60
 ttagatcttt tcttgcatag tgggtgcgaac tccatttccc cttttacccc tctttgacct 120
 aaacttcttt gctctctgca aagaagtcct ctcgaggaga agaaacagga aagacgaagg 180
 tctaggagta tcgtcggaca taactagtga atacgacgga aggcttcac ctgtttatct 240
 cccatcgctg tcagtactag tatttccgat cgccgtgtgc ctgcggaagg ctccgatcga 300
 tgctgtcaac aattgcaata ttgatggttg aatttgtctc tgcaaagggtc tgccatgatt 360
 gcagatacca tgccgcgggt tgcgatcatg acttgacag agtaggctga ttgcgatgga 420
 gagtgtcctg agtgccgagt ctgaattata cgtggagcga tgattcgaga tttcagcaag 480
 gcgcaagaaa aaaacgaaag gagaagacgg cgaagatctc agagaagcat ttgttaatgg 540
 acagctttca gcgtgggtca taaggagaac acagcgcagc ccactcctgt caggatcaag 600
 ctaatttggg ccagtccgac agctgtgtgg gttcttcagt agaatacaagt cctcacggcg 660
 cccgcaacag ctgtcggccg gtgcaacacc agggctgaaa gacgtcattc gggaaaatac 720
 aacccgagta aacataccat cgcaagtaat cgctggcaca catatttttg aaacccttta 780

cacctaaaat tgaccaaagc ccaaccgttt agaacataca ggaagactct tcggctgcag 840
gtggaagagt gtgcgggtca aagaaatgca cgatgaattg tttgcgggac tagcggttgc 900
ctcacctctc cattatcagc aggactgaca ggcattgccc aactcggagc cctgaagccc 960
ctgacaaaaca aagccgactc ctgggatcag atttatgaca ggccacgacc agttgtagcg 1020
atctgcgagc atccccagcc gaaccaaagt tgaaaaggcg cttattttacg ctcccgttat 1080
gcttattctg gcgctcgggt cgttccaaac tctagttacc agggatttaa gcacggagca 1140
agcctatggt tccccgcccg gtgaataatt ttcaagtcgg caaaggcaca aaacaaagaa 1200
aattctggac atatcaaata cacgaacaga tgggtctttag cataactctga ggggcaccgt 1260
aggcggaggt ggtcgcgaat caatgtcgtc gctagagtca ccgaggatcc tctaattggg 1320
gaaaaagtta cctatgtaca atagatatcc atattcgact acccgcgaaa cgcgacgaag 1380
tcttgaatga gggatgctga gatgtcgggt agaacaactt gacacctgcc gagacccttt 1440
tccacactta gccatcaatg accagccgcc caggataact atcctacagc gtggactaat 1500
tcaacaatt cccctcagcg gaaggcccat tttattcata tgggcagaga gcgttattgc 1560
cttatgcaat caatcactgc tctgcagcgc tgtaacgtac gtacttttta cgaagtatgt 1620
gtatgcaagg cctcgatgag caaataaata taggccctaa taggtagccc ctttgacagg 1680
tggctactcc tgtacggggt gtgggttccg ggattgagtc agtcaaagggt tgcgttttgc 1740
gttttggtt tcttacctg taaggctact ttgcatgcag ctgggcccga gctggaggct 1800
actcttggga agtacggatt gcaatagcgt agtcgaagga tgacagaagg tggcctcata 1860
ggaactaggg ccgatgggta taaggacggt tatcctgcaa cggtacctaa tgctgccgtt 1920
atcagactgt cggcttagga tcagggtttt gttgcgcagg agtagcgaca gaatgcaaga 1980
catggagcca tcctgataaa aaggccccgc cctattgacg atgacgtcta taaatatacg 2040
ctcataaata gtaatagtac atgatgttac tggacataca taatccaatg ctagtcgtcc 2100
ctcttttact ctcagtcgt acgtaccggg ctactccta gcgggacgcg caggaagggt 2160
tccataagaa gcgccgcggc aacgcttaca ttgagactat caactcgagc cgggtcagag 2220
gcagctccta cgccgggaag gagtctggca ccagggatgc tgacaatgga atcggcacgg 2280
cccttgatgt ggttgctaag accagatcct tcgtagccca tcataattac gctgggagac 2340
tgtccgatga gggcgtcggg gtgtccttca ttcgtaccg ccgagccagg aggtttagc 2400

gcgccagggtt caaggtaagt agcacctgtc ttaggaacat ctgcagcgta aaatcgccag 2460
 ccgttggcctt gggaccgctt gatgaagtct acttcgttct ggacgtcaag aagagtcattg 2520
 ttctcggcgg cgccggcgga ggccttgatc gtgacgggcg acagtggcgc cgagtgtcgg 2580
 ccggcaaaga caatggcgtc aaccccgagg taataggcgg agcggataat ggaccctagg 2640
 tttcccgat caacgacacc ttcgagtagc acgacgactg ggtatcttat ctgctgttgg 2700
 gtgtatgaat tgttgatttt tatgcagtca ttcgtcccg tcccttcgc ttctctcgc 2760
 gtttgcggtg cgagttccac tttgaattcg ccgtcaccca attggacagg cctgagtgtc 2820
 tggatgggcg ttcggggaag gggcgatact tcgaggacac acccgttatg gggcttcct 2880
 gcgctcattt tatcaagcag tcggttccat tcaccgaagg ccaacttgac tttgacgttc 2940
 ttggacagag caagtttccg caacaccctc ttgtcagcgc tcaactcttc ttctccggct 3000
 gtctggtaaa gatagagttt gtatagctgg cgcttgcaac aacgcaacgc agcttcgacg 3060
 gctgtcgtac catagataaa ttcggatgcc gaagtgggtg aggggaattgt ggggtgggacc 3120
 cagacatgct gcttcaactcg ttcaggggtt tcttctgtag gcttatgggtg ttctatccga 3180
 cgtgagcgtc gcttttcttc atcttcaggc gttggaacat attgtgaaga gcggccgctc 3240
 tttccgatac gagattcatg actgtcacgc atgttttgcg gtaagcgacg tctgctcgca 3300
 gcattagatt ccttattacc gcgtaagtcg tgcgcgtttt tgaatcggtg atgttcagga 3360
 ggcaatgcac gaaagtttcc ggacctaatt aattcatctt catcgaacct catttcggga 3420
 agcgcttgcc ggtgcacttt tctattgc 3448

<210> 1884
 <211> 1169
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1884

cagattgaga gcgttttttag caccaagagg taagcagcag tacgggtggt gtggaggtga 60
 tgtagcttta tgcggcagga gagcgtttgc cccagtcctc ctggagatga tgacgactcc 120
 ccaactccgt ttacctctgg cgagggcgcg gcgtttcaaa ccaacaatcg cctagatagg 180
 gctggagtcg cgacaacgtc agtggcaatc tattaatctg gaggccgacg ctttgaatgc 240
 tgcagaacat ttataattat ctcttgatgc agcctcattg agcctcgagc gacgttgtca 300

ccagagggag atgtctcccg ctccattacag cctcaccttt tagcgctcgaa attctctgaa 360
 ttgcctgcgc tataaggatt tccccagatg atttatctgt gattgcgaga ggtacattga 420
 acagcaatac caaggaagct ttctgacgcc gcaacaacta tattctatag ctttcattac 480
 gcacgatcgc cattgtggta taagccagtt gtcctaaatg cagtatatac tcttggcgat 540
 aaatgaacca tactcactct gaaaatgttc tccaatacag ggtatattcc tataaaaacg 600
 aaagaaaaaa taagaagaga aaagaggaaa aagaaagcac agcggatgct tcgaattccc 660
 aacgcagacc tgatgatctt attccatcag ctgtacagtt cagtgcctgc aactttgggg 720
 atgatcttct tcaattcgac ttcgctgctc aatgccctat tagcgacctt gaaagcttca 780
 tccagcaggc gaacaaacgt acaagacaag tccagaatcc gggggaatca acccaggaaa 840
 ccctctcttg ccataaccgt tatcgctgca ttcacatcag tctgtggcct ttcgacaatg 900
 ccagttcaac accgagtctt caattagaag atacggtgac ctgatgagaa gggggtatag 960
 acggacatac ctcgatattg tgaggatagc cttctcacca agggtcactt gctgcacgcc 1020
 tttgtcccag cctgtattgc atccgtagt aaagcaatct tgtcaggcac catgctctgt 1080
 cccacaacta cagagcttat gagcataccg agtataacct tcccaactcc aatctccgtt 1140
 ttcagtgggc cccgaccttg cgaggtatc 1169

<210> 1885
 <211> 825
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1885

ctggaacacc aggaatccga ctcggecgct gccgcgcac aagtttgcta atgatctcct 60
 gcaactcctt ctcaaaccga agctccatca accgatcacc ttcacgcgagc accagccacc 120
 gtacattgct caggtccaat gcctgctgtt tttctaggtg atccgctaac cgaccagggtg 180
 tcgcaacaag aatattcagc cccttcgcga accgcgcttt ttcgctcttc ttcttctcac 240
 caccaataac tgttccagcg actatccaat gcgcacagcg caacagtccc tccaagacaa 300
 ccgagatctg cttacacagt tctcttgtgg gtgctaagat aatcgcaaac aacccgctgt 360
 ctctatggac gctcgtgtca cccttcgcat caccttcggt ctttgcgcg gcgaaagagcca 420
 taatccgctg cagcagtggt agtaataag ccagtgtctt tccggaacca gtctccgcct 480

ggatgaacgc atccgtctct tccttcagga gctgcgttat tgacgctttt tggatagcag 540
 taggagcttt aagttcgagt ttcgtgagca ggtgtgcagc gagggtaggc gacaacccaa 600
 gattcgtgaa tgtgtccagt ccgtcaatga gcggggcggt agtcggcttc gcattctcca 660
 tcggctcgtc gttcttgtct tcctccacag cgttgcgggg tcgaggattt ttcgagaaaa 720
 gcgacgaaac gacagatcct cctgtcctt tcttcgggtcc ctttgattgt ccagaacctt 780
 gtcctgtgct ttgccttcac caagtttttg gaacccccgt ctgtt 825

<210> 1886
 <211> 3501
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1886

gatggcagag agctgactga agatttggtt acatttgtgt agaaattggc tacacccgag 60
 tgaacaacat tatatgttcc tagtatcgag aggctggatt gctgcctgaa tctttggcga 120
 agcctgtcct aggccccagc aggtgggggt ggggcccga aacattgggt tcctatacgg 180
 ggttcagga cgaaaatgca acgttttgta tccatgtaga tatgtgtggt tccttacata 240
 tttgattacc gtattctcta taagctctgc cgggcctcaa cacctggtaa tatcaagatc 300
 cgctcgaac gaacaccaa cacctcttaa aatgcgctca tggatgtaat catcaaaata 360
 actaacgaga ggagacaacg atttataatg ttatcccggg ctctccctcg gcactctgggc 420
 taccgcccac tctaggatgc tttcgtagca aagtacaaac tgacttaagt tctgaaccac 480
 gctcggctct tgcgtgcgaa agtcggacag tgttttcgca acaagatcca actgtcccc 540
 gccgagcaac tggtcgaatg gccgtccgtc atgctgccca cctggctggg cacgttgacg 600
 tttaagcaca tccaaaacac tatccacggt acaaaaagtc ccagtgcgac cacatcctgc 660
 gctacagtgc accaaaaccg gtctgtttgg attaccggc gcagctttag ctgcgacgtt 720
 tcggacttta tcacattgtt cgattagact cagaagatgc cttggctgag aggtggtacc 780
 aaagtcgggc caatctcgt actggatttg tgtaacttcg gcgagaggct cgaacggaaa 840
 acccgagtgc gacaaaccaa agtcctgac aataagcgtg gggttatcac ttgagtctgt 900
 cgacgacctc tcgactacag agtcgactgt ttgtgaatct gttggcacca taggaacgta 960
 tttctttgag aaattgttca catggaattg cccatatgtt ccagttttcc agtaaggatg 1020

gcatttgacc tgtcctcttt caacctcggc agtcagggac actacaagac gaatgtcttg 1080
ctcccagata acgcgccaga aatcctatag agaatgtcag tcgatacact tatcatatgg 1140
atgacgaaca cgtcaacgcg aaaagcaaaa ggtagaactg acattaaaag tatcaggcat 1200
aggggcttgg gtcgctatgt aatgctgggt gctatactcg gcttttaaat aacttgcggt 1260
cacgtagtca cagccgccat tgggtatatc atggagtttc actcttgaat gatcgtaagg 1320
atagatgtcg ttatatcggg tcttggcgcc cttttcaatc ccagcgacac gatatctcgg 1380
agacgaaggc ctatctgaac ctgcattatt gtctgatcg tatgaaaaag cttgtttcat 1440
ccgttctagt tccgtcttct caatgtcgaa aaatcttgaa gcggccagcc gacctgatc 1500
tgcagggtcg gatacctcac gcaaccaggc cgggagagat tgcctttgcg gggcaggtag 1560
atgttctgaa tgtttcagcg ggatttgtcc gacgccacca agaagatcca tgtgctgacg 1620
tatgttccca aaaaaggga tgcagcatt ggacgattcg ggtatattgc aaccaccagc 1680
aacaggtgcg gattgtggaa gatcgatatg cattgaggag gttttctttg accgtgcac 1740
aagcgccggt tgatgctgct gttgtggctg ttgctgagt tcaggaaacc tagcagagaa 1800
agccttgaag cctcccatca agatcatgcc gtcaccattc catccttcag ctgtaaaact 1860
cttcaccaca ttgacgagag gggcagcatc tttcatgtta gaagttgcg catcgtaaac 1920
gataatgtaa cggcactgcc tccaacggcc aaagtcttc cgatcagctt cgttggcgaa 1980
gggtgttcgt aatttcttag tatcgaacga ggggcgcttg aggagggttg tggggatgca 2040
taggttcaga gcaccttga tatttctct ggaaaaatgg gcgtacggtc gtacatccaa 2100
gagcataaga tcatccgct gtgatccaac aaactctgca caagcttcac ttgaaactaa 2160
cctcacgctt gatcccagga ctggtggaga gacaaactc gttgttccgc tggaagtcga 2220
atccccgcc tggcggttta aggagagtct gtagaccgct ggatcgggga tgcaagcagt 2280
ttttctgat cctgtacct tggaggagg ttgttggtcg gttaggtctt tctcggagat 2340
atactccct tccggactat gattcggaag ggcattgtga aaatgtcctt tgcctttgaa 2400
attattcgaa ctttctgtat tgaaggagaa ataattgtct ggcagttccg ctgccgttcc 2460
ccggggaatg gtcccgcgcg ggctgaatct attaaaggat ggacgagagt cggacaacgg 2520
aaagagggcc gcaggactgg aaggaccggg gagcgcaagg ctttgggggt cctggggcca 2580
cggtgatgtt ggcgatcttg ggctgtcat cgcagacata acttttgcac cgacagcaaa 2640

aaacttttat cttgctctcg aagacgatgt cgatatgaat cagtcctcca accagcttgc 2700
 catgtcgata tcgattgcga ttcccaagaa ggtgacgtga gaatgtaagt aggatcgta 2760
 aggaaatcgc aggtgtatgg acgggctcaa gtagagtgtc gtagagcaga aatgctcgtg 2820
 gggaaaaccc ggataacagg agatttggca aaagaaagac gttaaagacg tggagggtcaa 2880
 atagggttcg ggtaatgagg gtcaaagagt tatataatgt ggatgtgtat ggataggtaa 2940
 cgttgctgaa aagcgcgatg tggcggcagg tgaatgtaga agccgctcag tgagtgcgaa 3000
 aaaatgggga tggaatgtct cgttcccagg cggcagtcgc ggtctctac acaacaaatc 3060
 gtcgttccca ccaagtatca cataagggtca aatccagttg agttcctggg ccaatcgagt 3120
 ccgcagcaaa gcagtggggg tgaagctcga ctagtgagaa ctgcgaagga gtatcattgt 3180
 cgacccactg gtgtcattgt tcagaaatca gcaggtcaga aggctggagt caagcagaaa 3240
 aaacgggggg cgtgctatga cgttatgggc ggagggccgc gggcggcaaa cttctgtgct 3300
 agccagtagc cacaaccagt tcggtcgcgg tctggcccaa ccgcccagag tgagattcat 3360
 tacgggttgg ctggcactgc cttttccttt cgccatttat tttttgttct ttttggttga 3420
 agtacttgtc gccactcagg cgaacacctg gttgaccatg ggatatcgat gaggaatttt 3480
 gattagagta cgggtgcagg g 3501

<210> 1887
 <211> 2465
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1887

tttccggcac agttggtctt ttcgaccgt atgccacca aaatatagtc atcctgttca 60
 gccttgtctg cactacaacg tcggttccat gctctggacc ggatcttctt gcgttggagt 120
 tctataatga gcatggggat gatgacgtat tcgagcctga ttgtacactt ggccaatacg 180
 ttgaagacat ctgtctcaac gcaaagtcta tatgtaccgc caatggttgt gaaaaacgga 240
 tgtatgaaca tcatcgccaa tatgtgcatg gtgaagctca gattagtatc tttaccacgc 300
 attatccttc aaagcttcgg ggtttccagg acacaatctt gatgtggagc tgctgcaaaa 360
 tatgcggcaa cgagacacag gtgtttccta tgtccgacaa cacctggaaa tattccttcg 420
 gaaagtacct cgagctctcg ttctggagca agaacctccg tgctcgtgcg ggggtttgcc 480

ctcacgacct gcaacgagat catatgcgct acttcggctt caaagatatt gcgattcgga 540
ttcaatatga tcccatcaat ctgcttgaaa tcatcggtcc cagaacaaga gtgacctgga 600
aagttgataa tgacttgacg ctcaagaaag acgtctactt gaaatgtgaa caacgtataa 660
ccaaatttat gcagtccgtc aaggcacggc ttaaggcaat aaatgttgaa agtggtcttc 720
ccgacctcat ggaagattgc aaggcggaat ttgaaaatat gaccaagaag gccaacgaag 780
atcacaattt gatgatcaag cagttgcagg aaagatatat gaattctcgg tattgggagg 840
tcatcccgtt gaacaaagca atgagatctg tccaagaaaa ggtcgtcgaa tgggataaccg 900
cgtttgctga atttgaaaag aatttcttcc catcagagaa ggatatcaga cgattggcca 960
ctctgcaatt gaagaagatt ttcttggaca gagatgcctc ggtgacgtct ttgacttcga 1020
atgatgaaca gccgacaacc ccaaccgata cagagaatga gcgaagtcag accccagatg 1080
gtgcccgaat agttcgccgt atgacgctgt ctctgagaa aactcaggat tttctaacat 1140
cggttgtcga agagcactct ggggagaaga atagagagat acagcccgaa gatcaagtta 1200
accttgacga gatgcgttca gctgccgcat ctctatttcc agaagagacg ccggtatctc 1260
cgtcacaaga atctttccat ggaggagctg aagcagagaa caaaaccag gatcccgact 1320
caaccctga aaagcaacga gatgatatag ctccgtcctt aagaaccgaa gacattgcaa 1380
agcctacatt ggaccaagac aacttggaag caaccctga agcctcggaa gccaccagg 1440
aaaagggtag tgatgcgagt agcaggaaga gcgatgaact cgaacagccg accactggat 1500
taccttcaac accacaacat ggatttctt caatcccacg gccatcagag ggctattctc 1560
gtcgtaatgg gaagtccact tctccgccgc ttttgcgtgc gcggacacag cctgccctgt 1620
ctctcaagga cattgggcca gaatcgatta aaggaactcg acttagtcca ggaaagcttc 1680
aacggcccag tggcactgtg agcccacctc tggagttaa atcgaagaac tcagataaaa 1740
gactgtccga gcgttttaat ctcaacgct tccgaagtgc acggcttaca gcaggtcaat 1800
ctttgatacc tcgctcaata cctactaaga aaaaccgctt ttcgtctctg gccaaacact 1860
ttgagcaact gagccgtgag tttgagaaag aacgacagcg tgacgatgcc cagagagctg 1920
ccaaaggtag ccaactccgt gcgtaccctc ttgcttcgtc aaagcctatt gtggaagtgt 1980
acaagaatgt tcgagaggcc gttgaggaac gggaaccctc tgctgagggt gatgatattc 2040
tctcatccgc tccgcggcat tcgacggacg actcagctcg agggagtcag gattctgcga 2100

gagcaccttc aaccgaggag cagagtacgg ccccgcatth ccagacatca cctcctgagc 2160
cgacggcaga ccagccccag gaggttgatc agaacatata tgaaggtgag gttgaggagg 2220
ggcacagtga cgaagaacgt acctcagtag acgagcatca tcttgcgga cccagcgatg 2280
agttgactaa ggactcccct gaagatgagt ctctggacct caaggagcta ccgaagcacg 2340
aaagaagtac gctcctgaaa ctgctaacga acttctggtc agagcggta gccagcgggt 2400
gggcacctct agattatccg ctactatgt ctgatcacgt ctttgcgga tgcgatatacc 2460
tcgtg 2465

<210> 1888
<211> 3053
<212> DNA
<213> *Aspergillus nidulans*

<400> 1888
tcgaagaatg ccgagggcga ggtcgcaaga tataaccctg acctctcaac tccgggttct 60
gcgtcatccg tactgccacc ccaaagtcac ctacttcag gcaaaccagc atcggggacg 120
ttgactggcg atccgtcgac tcagcagctg aacgcgggag tcctgacaat aatgggcgac 180
taccaggtgg gcacgaagat gtgtatatgg atctcaacat gagtcattcc ccacggcatc 240
gccccggtga tggtgagca gtggccacta agcacagtca ctggacggca ctctgagtct 300
gatataaata atcctttcga gtcagaaggc tttttttgt gctctgagtt gtggctgcct 360
attggtgtgg caaacaatgt ggcggagccg ggtttggtaa ccgctgagaa cgtagaggca 420
ggattgctgc atgtgcagat aggagcatgg gcatcaggta cggtcgggga gagcgactgt 480
ctgacatctg atagaccgtg gaagagacgg gctgcatccg ctgcattcca tgggtcagaa 540
taagctcgtc aggtaaccta accagtgaac cagctcctgt tgggctgcac gatgggctta 600
ccgctgggca gccaccacac catcaacaag gttttgacac cgcaactcta tgtactttgt 660
aaggacagca tcctccagga tagaatccag cgcgcaaaa atgagcgctc aacctatcag 720
ccgactattc cagatccaga gcggcgctct cgggtgtcga agagttaaag ccagtgcgac 780
ccctggcata tcacacaaaa gcaacgagat taacgagatt atcaacttcg accttggcag 840
agtggctctg atgctcgacc gcaaccaata gcgcaaatc cccgatggaa aagatttaga 900
gtctcgctag aagtcgagga tcgcagggtt atgggtccgt caggacacga taagtcaatg 960

atcagtccgg ctgcgccaacg gcctgcatcc attgcatttc caacataaaa gctgaccagt 1020
 ggctacatct ttgctatcta actgaccagt gactgggtgag ctggactctg atattgattg 1080
 tcgccgtcat cgcgcattat cagggttccca ctaagttctc ctttctgctg actcctttcc 1140
 tcctctgcct ttttatatta cccagagaca aagcccaagt ttgagccgtc tgagacctgg 1200
 tctgactctc acaccgtctc tcacaatagt gcccactgc agagttttca ccccagacc 1260
 ccttgcactg gatctcttca tttgattctt tctgtgcaat cacagccttg gatttacaat 1320
 ttaatatgtt tttatttata ttccgtccaa tcttgtgtgc catgcccctt taccgtacc 1380
 gtacggtatt ttgcattac cagcatatct gagagccacc aataccacat accttgattt 1440
 ggcgccggtc catcccggtc cttttatcct cgagtcgact accaagtcca agaccaaggc 1500
 atgaatggcg agtccaccaa ttgccatagc cggtcgctg attcgcgcat tcccagaatc 1560
 agaaataccg tcccccttcc tcaatgtacc cgtcttttag tctagtgtct tcctctcagt 1620
 cccaactcag ctgcactggt cgggttggtt aactgtctc aaaagaataa tttctcgatg 1680
 acgcctatgg taacaggatc caagcctcat gccgatcagc ggcaggcgaa atgaaaataa 1740
 aatgagaata agaaaaagca aggaaacgtc gcttgctgtt tcatttcgaa cagaaggatt 1800
 gtgcggtgcg tcaatgctgc agcccttgcc ctgagcccta gatcgctgcc tggttgttcg 1860
 gactgcgaag gattggcgct gcagcggctc gcaagctgca gcctgcatag gcaggggact 1920
 ttcgttgcaac gttcaggcca ggccagacc atacttttat cgagtcggct cgtccgttta 1980
 cctggttggg actggaatca tgtccaagtg agaactgggc aatctcaaac ccttacgcat 2040
 gaacatgttc ttactaaaga tgtctctcat gtcattctgt taagtcacaa tgtatatgca 2100
 ggactggatg ctgcggccaa actgcggcca aactacggcc actcatcttt cctacaaaat 2160
 aatacgggtg ccttaccgac tccttttatt tagccttgca tatcatcctt gaatacgaga 2220
 gcgcctacgg aggacatgta ctttccaggt tacgttgagg taaaaaaagt actactttct 2280
 caccaccagc caagcaaact agccgcgaca acgcacaatc ttaatcaatc cttctgatgg 2340
 attgttctcg gtcggtcat caatattcgc ccatgagctt ggtacttggg actccatcat 2400
 ccgtacgcc acgcctactg cttataaacc acatgaacag tcccagcacg gtaatgacca 2460
 agtaatttgt tacctgcacc actgcaaggc tgcaaggctg gaccgaactc ctctaacca 2520
 actaactttt ctccgacatc atgtattaca cgacataaca tgtgctgctg tccaacgcag 2580

tggagtgggg gatatccccg caaatgaggg cttgacacgc tggctcagac tcagaataac 2640
 ggtaggatcg ttcgtaactt tgtggtggat tggcgctacg ggggaatttct ggtgatcggt 2700
 tttgaggttg tggaggtccc gttagatagg tagtcaaaaa accccacttg caaaatggaa 2760
 accattgcat acctcacgct gatgtgactg atgatttata ctgacgagac tggtcatgcc 2820
 ctggccggct agttattttc ctggtggccg gaggcccaaa acgggtctaa actagcgggtg 2880
 gtcttcaaaa ggtattcggt accaatacct taataaagaa aaatcatttc cttaacatcc 2940
 aattgttggg ggtagatacg tgctctttt ctttttttct ccacctaacc gtttgtttca 3000
 attcccatgt ttctacttgt tcattttctc atattctata ttaatacact ctt 3053

<210> 1889
 <211> 2956
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1889

tactctccag gtccgtacat ccgttctcgg cgtccggtta tccaagtcac gttttgttgt 60
 tgcgctactc aatagcattc atacgtttgt cttctcttct ccgccgaaga agctagcgggt 120
 tttcgagacc acggataatc ctttggggct ggcatgtctg ggacagaagg tattggcatt 180
 tcctggtcgg tctccagggc aagttcaact tgttgaactg gaaacgggga atgttagcat 240
 catacctgct cacagtacac cactacgtgc catggctttg agtcccgatg gagaggtgct 300
 tgcgacagcc agcgaagcgg taatccctcc ttgaatccgg ccagcactca attccgctaa 360
 ctactggtcg cagggcactt tgggtgcaat atttgctacg agcaactgtg caaaaatggc 420
 cgaacttttg cgcgagtggt atcatgctat tatattctca cttgccatct ggccatcaaa 480
 caacctatth agccgtgaca tctgacaagg ctaccctcca tgtgggtaac ctcccacatc 540
 cccgcaacgc cccgtacagc aaccagcaag catcttcacg tgacgacgga gtgaacaaga 600
 aatgggggtat acttggaag ataccgctgc tcccagaggt gttctctgac gtctattcat 660
 tcgcaagtgc acattttgaa ctgggagaag aagagccagg acccacatat gcacccccgt 720
 tgggcacagt actaggacga cctccgaaag gtgtaatagg ttggtcgaac gataatacca 780
 tactagtcgt tggctctggg agtgatggca ggtgggaaaa attcgttctc cgtgacgacg 840
 aagaagggaa gaaacactgc ataagagaag gctggaagaa atatctggga agcgggagct 900

gacggagacg tcggtggcat acatgctcaa cgtgcgacaa gatagcaacg caatccgaca 960
atgtcaacta aataattccg gcgacaaccg ctaccgattg aattcttttag caatggcgac 1020
atcacccaag tgagcagtca ttctcaacaa cgtgcgagac tgagaatacg ggcgggccgta 1080
ctggttctac tatcagtcta gctccagccc taaagtccgg cagtagatat cgggtctgaa 1140
cgccaatgag ttcggaaca tattccgcac gcagcagtcc tattattcgc ttggcttgtc 1200
atgttcactc ttaccgacga cgatcatgtc tatctcggtc atggcggggc gcaggggatc 1260
gagagcgttc cggagatttg tccctgtaag acctatctcg tcggcttcgc tctctgtagt 1320
cgcggtgct tctttctctg gaacgcgac tatcatcgtt atgtcggcgg tggcgggtgat 1380
ggtgtcggga atgacgactt ggtctctctc ggctagactc gcgccgtcgc gaagatctct 1440
cttttcttgc ttctttctcc agagctcggg ccacttcttc tttcttctcc tcaatgagat 1500
attccttcat agggctctca tcgtcatgat tccttatcag ctctctaat tcaatctcct 1560
cttttagaag ttggcgcttg ggttggtccc tctctccgct atgtcctctc tttcgtcttc 1620
ttccctcatc gtccgtatcg ccgtcagcct ctttaccagc cgtctcgcgc aataacttgg 1680
caacattatt tgtatctctca tcttcgtcgc gctttttgta tctcgtatgg tccacacgta 1740
gtaccctgcc gagaaccgtc gctccacca agttgtcaac tgcgaggtcg gtactccgct 1800
ggtcttcata tttgagaaaa gcaaaccctc ggctcttccc cgtttctttg tcgcgtacta 1860
ggtttatgtg taccggctca ccatactgcg agaatatggt aacgatgtca cttctgaga 1920
gatcgaaggg aaggccgccg atgtagatgt aggctgtgtc tcgataatcc gcgtgccagg 1980
aagcttccgg gggactggaa acggccatat taggagctgc acatcaagca aaaggaggta 2040
tatacataca cggcatgtc tagctcgcgc ttgttcagcg cttggacttg gcgaatattg 2100
ttcatgttat ctgtggtctg tagtagaaag aaacgttgat ctctgatgtt ggccaatcga 2160
tagcttccgc gggatatctc catcacgtga ctttaccttc ccaaaagaga tgggatattt 2220
gggtaggtgg atcctcagga gagaggacat agaataacac ccgctggcgc gatgctgaac 2280
ttgttgattt taatactatt tactacatga cgccccgaac atctgactac accagaatct 2340
acgctcatag tacgctaact tacaatctcc gctagcataa tctcagaaca cgttctttga 2400
accgctctgt ttccactctg ttgcccga cccccgttcc tccgccttga acaacgcgtg 2460
agattcgctg gagctgtgaa atcttaccta gaaggtttg atggtctgcg ctagctaaga 2520

ctggtcagtc tcggacagac gatgtctacg tcaaaaagat ccagcacggt gtccagtaaa 2580
gatgggctga agaagaacat ctggtcttcc atgctggata gcgctgacgac tggaaagcgc 2640
ttaccggaaa agaatctgtt gatactaggt gcgacagctc ttctgagttt cgggtcgtcg 2700
ctaactccgc cttgttttagg aggcacaccg gagagccagc gagagttcct agaagcctac 2760
tctgcagaca ccttggattc cagtctatcg aacgagaagc gaaaaggaaa agggaaagtg 2820
ccacctgttg cgaatcaatt cgccctaggc tacacgtacc tagatgtgtt ggatgcggac 2880
caggaaggta tgtcggcagc acagaattgc ctacccgcaa tgggagtgat aacggatgct 2940
aagactgtga caagat 2956

<210> 1890
<211> 1534
<212> DNA
<213> *Aspergillus nidulans*

<400> 1890
gaaggcggca tctgcaaagg gcaagtgaca ccggtttggt tcacacggct ccctcctgtc 60
tcagtcttct tggacagctc gcggtccaca accacggtag ggaattaaat accaggccac 120
ataggcacac tccaatccac agcgccagtt cggtgccgta gataaccatc cccaagatat 180
cgaggcacgg ttcgaacact ggcggtaaag catgagcaag gttctatcta ctcaaatcac 240
tgtgtacggt gatatcaagt acataccaac agaaacgagt gagaacagat ctccggccgc 300
gtcgatcgcc acgaagataa aactgatacc tcggacggtc cgatgcacgt agatgtccca 360
gtagtggcgc agcacgcctg cggctagaaa gcaggagctg aggacggcca taatggtttag 420
cggccatttc aggttcctgt ctttggcgct gcgcagagcg aataccaggc cggtttcaat 480
ggccccaagc aagagaagca gggagaggac ggcaccgatg cactttcgga ttgagtgttt 540
ctggtaaaag cgtgacatcc cgttgcgttt caacttaatg gtatgaaatt cgcatacttt 600
cccatagtac aaactgcg cccatgtgac caggctcaag aacgtgagaa tctgggcttg 660
cacgcgaagg gcgatgttca gctctgagac gatgttgtac acaccgagcg ggacaccggc 720
gattgcccag agcatcatca tggatgcttg caggccttcg gtgtcatggc ggcgataatt 780
gataataatc tgagggagga gcttggagtt cagttagcgc tgatatcggc cagcgacttg 840
ttaaaggcc atgtatacct ggatggacca gcagacctga tttggttcgt tagagaagct 900

agtgggtgagg acgaggtatt ttactgtgcc agatgtgcc agtatgtttg cggcgacggg 960
 gatgttctta ttactatgta tttttagttt aagttttatt ataataattat accgtaatgt 1020
 ctatttatatt ctaattatatt tttatgtatt tattctttac ttgttttttt tttttatatt 1080
 tattttcctt cttatttttt tttttttttc tcgtttcctt acgatgaatt attttgtttt 1140
 cgtcttttat ttattatatt attcatttta cttatacatt tttttttata atattttcga 1200
 ttttttatatt ttttactgtt tatatttttc tgtatttatt gtaatcatta ttctttatat 1260
 gtctattgtt ctttatcctc attatttttaa tttatctttc ctattttcgt tttttatcat 1320
 ttacttttac tatactctcg atttactttt tataatcctc ttcttctatt tttatatata 1380
 ttaccgtttc ttgttttttt ctattttctt tatgatttaa atgtgtatct tatttttatt 1440
 tatcactttt taatatccgg tgtctttctt atttattatg atttctattt acagttttct 1500
 atatttatat ttttttacat aaattatggt tatc 1534

<210> 1891
 <211> 1211
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1891

actatgcttg tgctactact tttcttcggc acgggtggtg gaattgccac agttggcatt 60
 cgattcttgt ggattagtat ttttaggatt cgactgggtc atacttcccc acaagcctta 120
 ctggtaatga cggccatatt aatgttgctg attctggctc tcaactactc gatttccatg 180
 attgttgca cccagtatgc gacatttgga ccacagacat tctgtgaccg actgtccggt 240
 tcctctgtgt taectgaact acaatgcgtc gtcaagcgtt gtcggaagc ctttggttagc 300
 gatgccgcca agaaggtctg tacaccaggt gttgccagca cggtttttaa taggggtgacc 360
 gtaagctttc ctttttttgg tgcaatcttc ttctggagcc agtttgcttt catcgggttag 420
 taacccttag gttatttgct gagtctatac tgatcacttc aggggtttac ttgcttgctc 480
 ttatcacttc gcttttgctg tctccaaagt tagacgaaca acaactggat gaggatgcgg 540
 aagaggctga ggaggaggct ttgctatcag gttctaggag aaacatggat gatcgatggc 600
 aaagtattgt tggcagagct agcagaagtg aggacacctg aaaagtagta ggaagtcagg 660
 cttcttatga taaaaactgt ctcatgaggt attggatttg gcaatctcaa tttcattgat 720

ctcccatgac tatgggctct tctcttctga tctgcctctg agagcataca gtacacagca 780
 aaaacatgga ccagtcacgg agcactcaag ccagagttta agcaagactt cgcctaaggt 840
 ttgcgacgat cattcaaaag tgcaagtgca cgctcaaattg cattgacaac atccatatct 900
 gtattgagcc attagaggtg aatgtaagcc agtaccattg tgacttacag ggtcttctct 960
 tcttctccag actctcttga gaattctgga catggtgcat ctgcgttctg aacctatgga 1020
 taggggtcaat ataatgcaac ctacctattg aaagagacaa ccaacctttt cagggtctctg 1080
 ctttcgtcgt gtacaacggt agtctgagac caggatgtaa gtatctaaag gtcaaagtgt 1140
 agaaatccca ttgcgcatgt tgatatcgga cataatacgc tgagcagtct cagtatatgg 1200
 ttgcggagct c 1211

<210> 1892
 <211> 4498
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1892
 cggcgctcg agctcgaggt gcgctgatt cattctggat ctgagggaaa ctgcctctgg 60
 agtgctctgc tgcagtgggg tcttaatgaa gcggaccgct tgggcttgat aacatacctt 120
 gaggcaacgt aggaggggag gccactgtat gagcggttcg ggtttgaggc tatcaaggta 180
 gtggagtttg atgccggtgc atttgagggt gtagggaagc accagtatac cgtaagtgaa 240
 gtggtacgat ccaactcatgg aatcgctaatt atggatagtt tatgcttcgc cagccaaaagg 300
 ggtttcgcta gtagtacata ctttatccgg tataacgagc aagcatggtg ggagggcggg 360
 atcgctgct attgtgattt tgaccggccc tatgcattat gatccttggt cgtttctttg 420
 ggctctcctg cgctcgggat tctgcacct acaaggaaag taagactgaa ttctttgttc 480
 tcaagtcagc gtttgcgga acattcaagt acagttccac tagttgtccc aggtttaaac 540
 atagattgag gaaccatgaa tggggtttgc agtaccctcg cgagcactag ggcttgatgt 600
 tcttggtatt tcaactgctca tgactccaca aaaccgcta gatgacattg actctagcca 660
 ataaatgatc ttcaaaggcc ttttggcatg gcttggccat tgccggcagg ctaaataattt 720
 tgtcttcccc agacacagtg taactaggca cattatacgt cggacgcccc gttgggccac 780
 gccactgcag cccagcctc tgatcggcgc tgcaactgtt caccgcgtt caagaggcaa 840

agtctgcatg attccgacga tctactaggtc tggggcactg gggcttgaca tctgaatcga 900
 ttgggttcgg gacaatagcc gccgcatggg ttgacatgc atgtcatcca ggtctctgaa 960
 gttaccgaaa ggcgattctg catttccctc ccaccggatt ccccgcgctc tgcaagatgc 1020
 ggtgatcttc tgaatggcta tggagcacca aaataggatg atctttgcca tattgtcttg 1080
 ggttgggtaa aatcttatcc acggtacttt aagtggcgcg tctactgaaat agcaagattt 1140
 cagatatata taattactcg tcttccatct gctctgcaga tgaaaagtca ttacatccca 1200
 gaaatgcagc tataacactt atgacataga tcatcttcgt tgccaaagggt tgaactactt 1260
 atgaaaagac tttatcatct gagtaaaact cgagtgcacac aaggatagggt ccgtgtcgtg 1320
 aacatggcaa gcagcaagac tgtaatctac ttgagcgagt aatcagtcta tgtctgggac 1380
 tgtttcgtgt acgacggcac cgtctagaat gcctgctagg gtttagcgat agacaagggg 1440
 ccatctgcac taagtgcctt tcgcgggcgt cgttgaatgg ccagaatacg attctcgaac 1500
 agttcgggca acgactatta tctactgggg tctatgtaca accctcagat cgacccgatt 1560
 ttgtaccagc accaagtggg caaagatcaa gcgcacgtac tctgtcctac aatcttgttt 1620
 cctcagcaga ttcttcgcat acgcaaacaa gcacaattat aataatatta tcgtcgatct 1680
 cgatcttctg tttcctcaac gcctcgatac cttaccgcct cgatttgtat atggaccaat 1740
 ctctgacgtc gtgagcacc cagtgcacac cagtggcgcg aacgggctaa gccttaacaa 1800
 gtcactgagc tctgaaacaa cccaaccaca acatcttact aagtcctctc aagaatgagg 1860
 tttcacctca tcgattctca gtctcggtcg ttgagattcc cgttccgaga atttcgatcg 1920
 gcggctaaag aatgggtcgc cggtcgggtc caattccggg gcccaattcc caatacaatc 1980
 gctgggtcgg agatgaaaat tgtgggaatg ggataatgat gtggattgtg gaattggtgc 2040
 caggtgtccg cgatgatctt acctgacctg attctgaatg ccttgacat gcttcacctt 2100
 actcggtcga caagtgcgcg tacatatccc ctgtcgatct cagtgttga tcatcattca 2160
 gcactaggca gtgagcactc gaggagaact cctctcttga cttcgatacg aagatagtca 2220
 agtgatgagt cttcaataca tatgaaggat ctactccgta ggggtgtgtg ttacctaata 2280
 atttcaagga cgtcagtgct cttgccctat aggaaatgag gattaggata tatctcgggc 2340
 cctcttcggg atctgggcgg ccggaatgga atatgctttg ggtagaatc gtgtatctta 2400
 tattgaggcc tccatctgca tctccatttt cacctaactc tctatctatt ctgcattctt 2460

tccgagccgt gcatacttag cgcttaaacg ggctcaatgt cggatgcat gtagagtacc 2520
 atattccgac ctcaagtata agtggcggag atgcggtcag gcggccgtca tcttcttcag 2580
 attctccatg taaatttctg actttcgggtg atatccatct gtgaaatcct tcagataata 2640
 agttcggagt actacagtgg aagaaaactt caaaccggtt cagtaatgag gttcactggc 2700
 catttgatat atcgggtgct ccgtacgtg gtccactttg atgcagcggc agccgtccgt 2760
 acatatccac catccatcta cggagtaccc accgtccatc ttacagagaa tgtcttacag 2820
 agaatgggcc tgagtcgagc tctcgggcac ggattctgcc taaattccag ctcttgata 2880
 tccctataatc taatgctgt gctgcatcga tcagcaatcg ggcggatcac gtgccacgtg 2940
 attgacaggt cacaagtcga gcttgaagat gatcccacgc ctgacaggaa caggttccaa 3000
 gttgccttaa gtttgcctcg acaaggaaca tcgcatcgag tcattgactg cgccgttcgc 3060
 gtagcaattc cggaaccggt taggtactac gaatgtagca ttattaagat gaaagaaaaa 3120
 actacgactg tgtgatgtca tggccactcg cttagttaaa tgagccccac cagaccgag 3180
 ttgggattgg ccgctcttgg cgccagtgcc gggacacctg cccgtttccg gagagtgcac 3240
 tgcgacgggt tcaagattgg ggacaaagac tggcgtgaaa gtgaaggatc cgtgggtagg 3300
 attatgaggg actactacta agagttggcc aagattcttg ttcggacgtc gaaccaacct 3360
 aggacgcgga ctgagcgcgg tcattggatg cggggtgaac ccaggaaaac ccagagacca 3420
 gggcgctcag cagcaggggc agccaggaca ggactcgacc gtcgaggctt tgtccacggt 3480
 catgtgcagc gccatgtgcy ccacagtgcc gctgagggtta catgcgaaag ggtaggttaa 3540
 atagacggta cagcgattag taatcggcgc cccaccggaa gcactcatcg agtcagcctc 3600
 aggccccag cacgtccgc cgaaagcggg aaccctcggc taacctactt gatggcctga 3660
 tctggtgcac acttggcccc cgaaccgggc tcaacatccg acaaacagcc ggggacgtag 3720
 acgggtcacg gcgggggata agatttcagg cgccgcgcca tcgcggatta ggcggttcgt 3780
 tttttccca ttaaaatcac tgattgggac agagaatacg tagaaaagcg aaataaatgc 3840
 gaaataaatg caactaaaag caatccaacc acacgtaagt gcctgacagg ttatggggct 3900
 ctcgggggct ctccattgtt gtactgctaa gtctccgtcg ggaagagccg gcgttgtaac 3960
 actgccatac ggggtattct gtacagaggc gtcgtcggac tgcgagcgcg aaccgatcc 4020
 ttctcggggg caaactgtc cagcgtgacg gcattgatcg gcggcgcaaa gacgcctctc 4080

tggccgtagt ggttgccgcg aagcagcacg aaggattgta gcgacaagta agtgggtggac 4140
 gttgacgcag gtcaagagac ttggctgttg agacgcaacc gctgaggaaa aagtgtgcga 4200
 tgcttatgtg gagagcacgg ggggatgata cgggggaacg gatctgattc gcttggccgt 4260
 cgtcagcggc gccggcaacg gaaatgtcgt cgacggtgcg tgtgtgtgcg tgtgagccag 4320
 aggacgacgg agcagtgtcg gggtagcgag tagagtagca atgggtggctt cgggggagtt 4380
 gccactagcg acgcctcttg gcgctagacc atgggtgggtt agccaagtcg ccagagttgc 4440
 ccttgcgggc tgtggggccc gacactgtct ttactcgcg gggcagctaa gattggct 4498

<210> 1893
 <211> 1489
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1893
 ccgtgacact ctctctcatg atccgcgtac cagagctctg gatttgggat ctttgcattg 60
 ctgccttaca agtatattct cagaagcggg gcccaaagtt ttaatccaac agttaatatg 120
 gatattctcc tacctccata tcagcagagc agcagagctt caaagtttga agataatttt 180
 agacctgtc gtccaataaa ccattaatac cattaataat aaccaaccat tcggcagctt 240
 cagactcgga ggctgtgaca gtgacactag ctgtcgcttt atgctttaac ttccctcaat 300
 gcggaaatcc ttgctagtgg tccgcccctc ttttttcgct gctttttgct tgattccgtc 360
 gccttcctc tgacatctct tcttctccat atttcagac tccattcctt ttgagtctgt 420
 gtttctattg ttcttccaga ccaactctat ctgagttaca tctgtagcgc gaccctttt 480
 tttttgtgtt gtgggttgtg gcttttaaaga gctttgtccg tcaactccta attacggagt 540
 agctgaatcc gaatcagatt cggattcgca agcttttctt ccagcttgac gacttacccc 600
 tgtatctgtt tccagagcgg atacatctat cagaactga attctgtgac tcgaactgat 660
 tgacgttcgc tttgtttctg ctaagtcacc aactggttac gtcaaacaat tctgcggcga 720
 gctgatcgca gaatttgcgt cgaggagtct tcttgaagaa atctccccgc tgcaatcacg 780
 gagcgcaagc gctcctattt gccctactca gtcaagttgg cgggccttcg ctactcccag 840
 tcattcttct tgcacctct cctgggcccc aagttcaggg tcttctgcgg gggagacacc 900
 aggccccct aactaggctg tcataaacac atcgaatctg gcacacggtc gcccatcggt 960

aatgccaggc ccttgcgagg ggtctggcta atggatggag gagcaacgtt tctcgggact 1020
 agttaacca tcctcggttat tgtgattgga cagcacacgc cgatactcga gacatctcgg 1080
 tgacattgac cgtttgaaat catactgtgc aggctcagaa gcggccttcc cgactacata 1140
 ccagtttact ccactagcga attgcacgaa aatgtccgag tccgcaaagt cggagaagtt 1200
 catggatctc accaggttca gcacaccggt gcctgaactg gatgaccatc ggttccaatt 1260
 agataatcaa catcgcatgg aagcgacact ggatgtgact ttgagccgtc aaaataactgc 1320
 gcagcaaggg atagcagaag taccacagcg ccccgaccta cttcaagtcc aggatgccta 1380
 cagagattct ggaccgtttt tgcgggactt cgaacacgct attctggacg atgatcggtc 1440
 ggcgaaagac gtgaatgctg tgggacgccg agtatctgtc gatccact 1489

<210> 1894
 <211> 2028
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1894

aaagatttct aatagaagct cgagttcaaa ctgccagtc ccaagcctga gccggccatt 60
 ttggaagaaa agaaatagaa actctgtacc cgtaactctc tgttttgcta gtcctgtatg 120
 tacataccac cgtgtctacg ttagatggaa ctatcgggtt ttcaatgctt gctattactg 180
 ccataaactg tacagaagcc gtaagcaatg ccctgaattg atataatttt gcgtaggccg 240
 tagaacaatt gatttcatgg tattaataatt aatcaagaag tccagtgtca aaatctcttg 300
 gcatgcgcaa aaccgaaaaa gcctcccaat tccgcaaact ttcaaccacc gtcacgaatt 360
 gctaacacca ccaacgttcc tgaagacccg gacaatatcc ctggacaaga caggaaagca 420
 atatttggca aaatgcccac acgcaaactc tccgacctga ccgacacgaa cgacacggcg 480
 caaccgcaga aaccaaagtt atctgaaaag gaataccaac acctgaaact tcaaacggcc 540
 cggctaaagc agaagtttga gttcgggggt acgtcgctat cgcgcgact caagaccgct 600
 cggggctttg aaaggcagaa gctcgggagg aggcagaaag tcgcaaaggg aggaccagga 660
 acggagatcg cagttgcgca tgcgaaaaag gcgaagtcga aaccaaagtc gaatgttagt 720
 cctgaggaga ctctcaggag gatcgaaggg gagattcagg tcttgaaggt tggttcaacc 780
 ttttcttcc ccgtgtattt cgttgatttc ggaatgagct cgtttgactg acttcgggtg 840

agagcctcga cccaactacg actgcggaaa aatatctctt caagcagcta gccaaaacga 900
 aacggattgc cgagtcacct gttttctacc gtttcaaaca atctaaagaa aagaagatca 960
 agcttgaggg accaaagagt acggaggaag cgaatgttac agcgagactt ttttaagtcga 1020
 atcccgtgca gaatgtcttg ccgggtatta tggagggatt aaggggattg tttggattgg 1080
 aaggagccgg ggcgaagggg aaaaaggacg agagggacgg tgggaagagg aaggctggag 1140
 aacaggctgg gggtagaaag gatgtttccg gggatgagtc cgtgtctggg tctgaagatg 1200
 aggatgaggc cgatgcgcga gacgcggagg tctggagcgg gatatagaca tgaaggatgc 1260
 agagagtggg gacgacgaag aggactactc gcacttcgac gcacgactag cctcagactc 1320
 ggaagactcc aacgacgacc tcttaagtga agacaacgat aataccggat caagacatgc 1380
 tcgccgtccc tccatgtcca tctcgtcttc cccatcacgc tcgccctccc catcgcaatc 1440
 gccaccacca aagaaacca agtctacatc cgcttccaag acccccgcga caagcacaac 1500
 ctctctcccg tccctcatga tgggtgggta ctggtctggt tctgagtccg agcctgagga 1560
 gctcgaagaa gccccgaagc ggaaaaaccg gatgggccag caggcgcgtc gggcactctg 1620
 ggagaagaag tacggtgctg cggcgaacca tataaaggcg gagcagcaga aggggcagaa 1680
 aggtaaagga aaagggggca gagatgccgg gtgggatttg agaaagggtg ctacgggcga 1740
 tggggatagg gatcgagatc gtggaaggaa gaagttcggg actgggtcga atgctatggc 1800
 tatgagtggg aaggataggt ttgggagtgg tactagcacc gctaaagaga gaacgactca 1860
 ggggtgcgaag agcaagaaga caaagccgca ggatgataag ccattgcac cttcttggga 1920
 ggcggcgagg aaggcgaagg agcagaaggc gacggcatcg tttcagggca agaaggttgt 1980
 tttcgattga taggcattga tatatatcta taatgagatt ctacgtga 2028

<210> 1895
 <211> 2408
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1895

cattaacttg tggggcacgg catgcgaact ggagattcgt ctccacttac aagaaggaca 60
 gactggttac ggcacagaac ccgccaagc tctggccgat gatgctccat tttcgcttct 120
 cttctgggta gtccgttgtc agacagcgac ggatagcttc gcagtctttc acaatgctat 180

cagcccggaa ctgtttgaga tactcggcct gtttaatggc attgccctgc agagccaggg 240
tccttgctgg gacggttgaa ctttaaccag ttccacgctg gtcgaggaac aatacctgtt 300
caaggtcttc aatcaggaga ccagtctctt atacataatt ctcggttgaa taaaggacaa 360
taacagcata cctggtatcc tttgtccagt gctgtccga cccagccgta ctctgcggg 420
ggacgacaac ccattcctgg accaccctgc aggtagacaa gccaggggag aggtgactgc 480
ttgtcatctt taccagagtc aagtggtttt gccgaacgac ggacgctgcg agcgaagagt 540
cgaagagtcc catctcccgg tcggctgtag ttgaggggaa cctcgaagaa cagctctgcg 600
acaagcagct ttcctgggcg aacgttagca aatgcgggcg atagagcaac tggattatcc 660
agtgcgtctt tgaagcgaac ctgagatgtt gtgtaatttt cggtcgatta gtttggcagc 720
catgatgttg ttgtctctgg aagtctgcag ttggtgtgtt gttaccccaa ctttagccag 780
ttcgacagtt tcaggcaccg gccaaacgga tcgtttctca gacttccacc atacaacttc 840
ctgcaccac agccatgtca acaatgaacg tggacatcga ggccaccgca aaggagcatg 900
gtcaactcca ccaagatctc tgggagtttt tgaacacaga gcagtcaaca gtactgcctg 960
atgcttcaag cctggctcga gcaagatcgt ctctcaggca atcgcttgat gacaagggga 1020
tcggatacga ttctacaagg cgacacatcc tggacgacct tgtccccgca ttcaatctga 1080
gcagcattag cccgctttac tatgggttcg ttactggcgg tgtcacgcct gctgcgctat 1140
ttgcggacgg gatcgtctct gcatacgatc agaacgttca agtccatctt acagagcaca 1200
ccatagcgac agacgttgag tacgcgacgt tggggcttct cgtcgatctt cttcgcctag 1260
accatgattg gcacaatggc actttttacga ctggcgcgac agcaagcaat atcttagggg 1320
tggcttgccg acgggaatat gttgtacgcc aggcactgcg gaaacgggga ccagcaaata 1380
cacagggcgt aggagaaatt ggactctttg aagctatgca cgcggctggg ctctcgggga 1440
tacaagtgct ttccacaatg ccgcactcgt cgctagtaaa ggcggcaggt gtctgggta 1500
tcggccgtgc caacgtccag aacgtttctg atgataacca tcctcttcga ttcgatctgg 1560
ataaggtaaa agctaagcta ggcgacatgt caaaggccac tattatcgct gtatcctgcg 1620
gcgaggtcaa caccgggtat ttccgccagg gtgggctgga tgagatgcaa aagctgcgca 1680
agctatgcga tgagtacggg gcctggctac atgtggatgg agcgttcggg atctttggtc 1740
gtgttcttcc agaaaccccg gaattcactg ccattaaaca aggatgtgaa gggatggagt 1800

tggcagactc catagcagga gacggccaca aaatgctcaa cgtaccctac gactgcggat 1860
 tcttccttac tcggcaccca gatgaagccg tgaatgtgtt ccaaaatgcc aacgcagctt 1920
 atctaaccgg aggcactagc gatgctccat cgataccatc acctttgaac atcggacttg 1980
 aaaactcacg acgattccgc gccctacctg tttacgcttc cctgcttgca tacggaagca 2040
 ggggatacca aactattatc gaggagcaaa tccggctagc taggaagatc gccgcatggc 2100
 tgtacgacca cccgaagtac aatgtgctac cggaagtaaa tagcaagcac gaattgctgg 2160
 ataagacata tatggttggt ctgttttagtg ccaaagacga taatctgaac tgccagcttg 2220
 cggcaaagat tgatgagact cggaagatat atgtctctgg cacctcctgg cagcagagac 2280
 cggcttgccg gattgccatt tcgaactgga gggttcaggc tgatagagac ttctctattg 2340
 ttaaaggggt attggatgag gtggataaaa atggggcttg atatctgcta tatccagtcg 2400
 cagtacag 2408

<210> 1896
 <211> 4088
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1896

aaagtagaaa tctctctaaa gggtctctat gtataacatt catgcagaga agcacgattc 60
 gccagaaaca agttaaccgt cttcacgagc gctatgcact gggggaccag gaggcacaag 120
 accgccgcca cctggctgga cggccctatc aggacgaacc ggatgaatca acatatcaag 180
 gacgtctggt ggtaggacca attcataccc ttctcgccat tntagcatat tcacgtcgcg 240
 catatattgt acctccatgt gtcagctcgt attcatttct tgatcccgat aacagccaaa 300
 ttcttagggc tctggccata atcaaaaaca ggctcaaccc agcattcttt gacgcaatcc 360
 tgttcacgga ggaattgcca tcggtcgaca gcaataatag cttcggcaac tgcagcgag 420
 aacgacatta atgtccaagt cacgctgagc cgtttcttcg taggccaata ttcggtggcg 480
 tagcggcca gctcttcacg ggtaattgtg accatatttt ctttgatctt ctggccgtag 540
 accggatcac ggctcagctt cacaacggcc gcacggacat atgcttgaaa cgaggtgaag 600
 gctgccttgc gcaaggatcc aacaataaga gggttcccca cgtcctccag cttctcgggt 660
 tcggtactat aaagatcttt gggtacggat ggttttggca ctactccccg gtccactagt 720

actcgctgga gcagtgtacg gtagtaatga cgggtgaaga aatcttctgc gtcggcggtg 780
 cccagttgt acggagcttg gacggccatt gatctggcgg tgatgttcag cttcacaccg 840
 gtcccacat cgtgcttaaa ttcttccaag cgtcttgaca ttgggaagcc gtgagggtcg 900
 tatgcggtag cgtctttcga caaacgagga tgcattggtcc gcaaacagg gagcttgtag 960
 gtagcagggc cgagccgctc ggtcatcagg ttatagcaac acccaatcat ggcaattgcc 1020
 ttgaccgacg gattcagaac caacgcgcga acaccatggt gaacaagatt tccacatgaa 1080
 tgcagcgaca ccaccatgac gttcacatct gaggcctgct cagtattctc tacgtcgtcg 1140
 gtgggttccg ctgatttctg gctgctcggg gcgacaacat ctttgatgat cggctccagg 1200
 taaccgtcct tgatttcatg ctcaatatag ttcacgcgc ctcgtggagc gtctgtattt 1260
 gtattcgtaa ctggcttctg aacagtcccg cgggctttag gaaagggtgcc gagctcgtcg 1320
 gaggtcacgc tgatgtcgcg gaatatgcta atctccgcaa cgccctcatc gtcgttccca 1380
 gtgtcttgtt cgtccacgct gtcgctcgtc cgctccggtt gcgagtctag cttttccact 1440
 ggcattgtctg gatcttcgca ggtcttgcatt ttatccagct tcttattgta taagcgcacc 1500
 ttcttcttct cagctagctt cgcatagacg tccatcctgt tggccccatt gataaactgg 1560
 tgcctccgtt caatcgcaac gatgttctctg ttatacggag gactggccaa tgtccgcca 1620
 agataattct gccagatcc aaaatccaca atgtgcgtaa tctcctcgcc ccgctcccgga 1680
 tgcacggtat cacatagtga gttgacatat ttcgagaaat gagcaacctc gtgatatttc 1740
 ttgactttca ttccgaccgc aatccgcggc ggtatggtcg ccttcccaga gccgtgcggc 1800
 gtgaactccc tgcgcaacgt aagtcgacgg atttgctgaa tgaactctat cagagacagc 1860
 ggagggagaa ccgcaactcc tctccactcc tgccctgcaa gatccccctg cttgtaggcc 1920
 gctagcatcg gttggatata gtcccgacgg agcaggtcga tgatgtccgc aatattgtgg 1980
 tgctcaaaga actgtctcca atcttcgggt agaagtgtag tatagaggtc aggctcgcgc 2040
 gtaagaaaat ccagcatatg tacgcccccg cagagggtgcc taaataggct ggatgaggta 2100
 gcaaatgaca gcaaagcttc gacgtaggcg tctggatccg tccagccctc agggagggga 2160
 agactcctcg tggctgacat tagtcctttc ttttttttc ctttttcgtt tttgtagcgg 2220
 acaggactgc agaggggtaa cggttcggag ggcgaagcgc gacttgatgc gaacgggacg 2280
 acggtgggga acgggggttt ctagaaaagc acgaccaata acatttggag catagagcgg 2340

cctgaagtgt ccaaaaattc gagagacagt gttgttagtg taaagtgaca gtaagtctta 2400
gactctccaa agatttttgg cggacaaact tttgcgctgg cgggtgggta gaaatgcagt 2460
ggaatgcggt ggggtggatc tgacgagagt ctggggagac tgcggagtct ttaccctctc 2520
cctcccttcc tagattccca agcagctcga atgaccgctg tcgccacgac aatccgagaa 2580
ggttatgtca attatgcata attacagaac cgccccggca tgaactgacg gtcgagagat 2640
cgacgctacc ttcaggagct tctattcagt ccaccggttc ctggcggtgt gcccgctcgc 2700
atgacaccat cacaacagcc actagtaagc tagcactatt ggcgagcgg agaactagt 2760
gtccaggaca gttgctgac ttatctatag tccgctcaca ggtttcatat ctttttccct 2820
gatggctatc gcggcagtgg ctctgtttct gtgtgacctg ggcgctggg cggcagcctg 2880
acatccttga tcaaggatat gtcagggcac gtccccgggt gttgcaggga ggagaagaga 2940
cggtagggat aagaccactc cacgtatgaa atttaatccg gcggcaatct cccctcgttg 3000
gcccttgggc ctggcgctct gcaaactccg ctcttgggtg caccggctctg cgtcgcaggg 3060
ggcaggcgat tcgtcatacc gttgcacatg atacctctc ctatcctacg ctagctcttg 3120
cggaatttc tatatattga gacattgctt ttaaggacag gagacaggaa ggcttcgagg 3180
gatcattcaa tggaccttct tactctttac cccagaacg ccatgcaagt cggatgaggt 3240
cgaaacatg gtaagaccaa gaccggaag aaaatagcac gcgacactaa tccagtctac 3300
ttcctagagt tcaactcgcc ctcaaacagc tccaccattc ggatttatcg ccgatatact 3360
cttccaaatc atcgtcaatg gtgaagtcaa cactgtgttg accctctgcc ttctcaacag 3420
ggccacgtat gataccatca aggtcttggg accgtacatc tgcaagtgtt ttatgcgcct 3480
ccatggcatt gatgccttca gtccaatatt cccctcgcac tcagggatgg gtcagcaaag 3540
cgcgctgacc gtgcatgccc ttgtgagatc cttgtatcgc catgagctcg caccgcgctt 3600
gtcccgtcac atcgtccccg ccgtatggg gccgttctac gacgatgaca aggtggatat 3660
gaatttcgag gccgaacgca agctctctag acgtttagaa cggggcctcc acgtgctctt 3720
tcacatggcc gacatcgac gcgacatcaa acgagaaccc caggaacttc agaaaccctc 3780
gtcctcttca tcgtttgtct caaaacgctt cactgtcctc acaaagctcc tcgaagatta 3840
cgatgacttt gaccctgact ttaacttcgc ctttccgctt aacaaggcca ggaccaataa 3900
caaacacaaa aagaacaaa acctcctgat ccccccaccc tcatccactc catcatcgctc 3960

actggacatc aaccacatcc acacaaaaca tcacctcaca gctatcctta aatggggcca 4020
cgccgagttc gaaatcggca agcgccgcct agagttccgc tccaattacc ttaccgacac 4080
cctcgagg 4088

<210> 1897
<211> 3439
<212> DNA
<213> Aspergillus nidulans

<400> 1897

gtcccagttg tcaaaattcg tcttcttgat caccggcgcc atgccaatg cgtacgacgc 60
ggagaagacc acgttcgtcc ccatccaggc gtaaccagcg ttgagagccg acagggtcgc 120
cactgccgag tcagagctgg cttttcgcgt tggggcggtt gcgatctgga tgtcggccca 180
ggctgccacc acggagctga gcaccatcaa gccgaaagac agcagggcaa gaggcttcac 240
gctgectccg accatgaaga cttcgccgta cgcgatgacg atgattgtca ggttcttgaa 300
gatcgtataa acgggaacag acaggaattg cagcgctttg ttgccgtat aaatcattcc 360
gaccagcagt aaggagatcg gcaaccctgc gattgaaaag gtcagcgttt gcataccgct 420
gggccttggg tggaagtctc ctacacgtct gagccttctt caagtcaaag aggccgaggt 480
tctggataag gccagccttc ttgcaaacca ttatcgctac agtgccaatg aaggactcgt 540
caagttaacg tccatcttgc ttttatggcg taaagaaata gtagaagtca tagaaataat 600
aaatttttaa atttattatt gttgttttta ccaaacaag acaagcaaca cacctggata 660
gcgagataaa gaaagctcag gttccagctg gcgccgaaa cgacgtactt gttcaccagg 720
gtcatgctga tggaggagag gcagtacgcg agcactgcag cggcggcatt attgcttatt 780
tttgacgca agctcgtcac ggatccagaa ttctcgacat cacgctgtga ctgaagctcg 840
taggtaggaa gcaactcgtc cttgctaatt cggtttcgcg tgctcgccat tacgctcagg 900
gggagaaaca agatggggag agttgccagc cggtgcgagg cacgtcactg taaaaagagg 960
aaaacgaggt agcgagggaa gagtgcgata gatgcgttgc ttagggtaag aaaaggcaga 1020
aagagatgca aaaagtgcaa aaaaaatcaa ttgaatctga caggataatt tcacaattca 1080
ccccagtgat tggatggagg tcagctgacc tgcagccctt gcagagtcga ctaaaccaga 1140
ttagggattt agatacattc gttcgaagta gaattcttat actaatttca tgcacagca 1200

aatgggcatg tcaggcacca caaccaggta gaaagaaaga aggcgatgct gccgttgccg 1260
ccccaatgct gtggcagagg cggagacttc gatcgggtgcc ggcatgggga aaacagcaca 1320
ggccccacag ctctgaaaat gatttgaagg gtaatgtctc gttgccagag accacagcct 1380
ggccgctttt cttgggaaac agctaaggaa tgaccagctt ccgagtttgt gtacaacat 1440
tagacgctga cctcaaccaa cggaaccgca gggcagcata actggttggg gttcgtgctc 1500
gctgctactc tagttatatt gccctagacg agtaccaga ggatagcttc ttgctctgat 1560
aggggctgt ttcgggcatg gattaggat gtctaagat ccgaattgca atacgggacc 1620
aataaacctc tgtccatcca gcgaggggtt cctggccctt cactactgca agggcagtgg 1680
taaagtaca aagaaaaaaa tgagtgaagg gcaagaatag agattccac aaaagcacag 1740
ggctggcgtt tgccgaatcc ccttaacag gagcaacata cggcttttac ccacctgcaa 1800
aactcgatgc tggtaactg cgctaccga cgctcttctt ctagataggg catttcgggt 1860
tcctataaca taagattgct aactgggtg tccaagtatg agaccatatg ccacacacca 1920
gactacctgg ctcatattta agaattcagc tatcaatgaa tatcgcaaag gtcctgctt 1980
acagaccatt tactcaggcc aggtacggg ataacatatt ttgcaatcag attgatatac 2040
ctttccactc tcttcgtcgt caattttcag gcatatgttg tttgcagtgt aggaattagt 2100
cctacttctg cagaggtgaa tggccataaa cggaggtgag cattccgccc tgagacgagt 2160
acatggctca cagcgcccg atatgctggg gaattggcac actcagtatg ctctacctag 2220
gctaagaaac atgggctctc gaataaaatt tgaagatagg caatgcattg ctagacgatt 2280
ctacacaact gcgatcataa ggaaatccaa atatacgac tttgtgaatc ctcatccagc 2340
aatagcggat gactagtgt agttaacca agaaagcatg cggaaagaag agctgaacga 2400
gctaactacta cgagttacgg accggaaaga gaaaaggat atagatagag ccgggccaaa 2460
aaagcaacag aaaaagtccc aacctcgac ttggatcatc ctcatatcaa gacattcaaa 2520
accttcatta gtaaactctt gagcggcttc gctggtgcaa gcggcagacc catcaactca 2580
gcaacagcaa tctgtgact atgcacgtg tactcgatat ccaatgtgga atctgcggga 2640
atctcgaaa actgaccac gcagccaatg ttcgtcgtcc acctcggaat gacaggggga 2700
cggtcattgc agctgcgggt aagaagagga gctgtgcca gcggcaggcc gcatgggatg 2760
gttctggctt cagcgaggat ggtggtagct tcggtggaat cctcactgca acagccaaga 2820

tggaagagaa cctcctttaaa aatctcttgc cccgtgcatt gccacatttc tcttttgaca 2880
 aaattgccct cgacgccggg attcagtga tatcccagca ttatggtcac attttcggac 2940
 tgagtcgaga agacgggttg atgcggaacg ctgatcgta caccacagtt gcttccgctt 3000
 agggagagga agggccctgt tcttggttc tctgagtaa gcctctcgta gatgttggca 3060
 aaaccagggc ctgtgaatgt tgttgtgaag gtttcgacgg tcgactctgg aatacagggc 3120
 aaaaagttca tagggttgcc gaatttggag gacttctggg ccagtttctc ccagagcttc 3180
 cagtcgccat ccagcacctc ttcccagttg gaagtgaacc cttcaggcgg cgtggtatct 3240
 gaccccatgg cagccctga agtagttgaa ccaagagtta caataaggat atcttgcgga 3300
 tcaagcgtga tgagttcctg atttccggct tctgtcataa cctcaatttc agaaatcgtg 3360
 gtgggtccgc cttcaggata ggccttaaga tctgatactt gctggtgaaa gcgaaagtca 3420
 acaccttgtt gcttgagaa 3439

<210> 1898
 <211> 2848
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1898

gacaaaggca actttgtttt gagcagagac tcgctgaact gttagatcct gaggctttcc 60
 cagttgttcg agccattccg tctcagtgcc ggccacaaca tagcttcgga agtcaaagtg 120
 acttcttcgt gtcgccagaa tgtgacacaa cgagtcagtc accgtactct cacttttatg 180
 tgacagggag tttctcatga agtacgatgc ataagagtct gcgacacggc gaatgccggc 240
 ccggtcatgt gctgagagca caaggaggcg tagcctttcg tttccatcag catcctcgga 300
 ccggatgtcc gccagagact gacgaggatc tgtaatatcg aggccaggca tgtggtgcat 360
 ttgcaagaag ctcttagcat cctcgagtat agcatgagcg ttggcaccac caaagccaaa 420
 cgaattcaca ctggcgcggc ggactctgtc ctgcggccat gccatattct cttgcgggag 480
 tgcaatattc cattccgtca atcgaagctc gggattgacc gtcgtcagac cagtgcggc 540
 ggggatagtc cccgcttcaa gacataggac taccttgata acccctgcca gcccggcagc 600
 gccctctgtg tggccgacat taggcttaac actacctaca taaagtggtc cgacatcgct 660
 atctctgcgg gcagaggcta cggctctgcg gattgctcgc atctcgattg ggtcctgaag 720

atgtgtgggt tagactaaag ttttcggaaa agggacaggg gcatcatgga cgtactcctt 780
gtgggtgtccc tgttccatgc gcctcaaaat aagcgggtctc ggacaacggc aaccacagcct 840
tctggtatgt ctcgcgaatc aggaatgcat gagcatcttg gcttggtttt gtaatgctgg 900
gcgttctgcc atcatggttg gcggcagtg cgcggattac ggctcgaatg caatctctgt 960
ctctcatggc atctgccaaa cgttttatca ctacacaggc aatcccttcg cctcggccgt 1020
atccattcgc cgatgcatca aacgagcgc tgatgccgtc ggggccaatc atgcccattg 1080
ctgagtactg cgccatgaag ttagggtgca agatgaggtt cgtgccagtg atcaacgcct 1140
gcatatccat gttagattta acgaatcctg caaatcttga tggatgaagga ggagacctga 1200
gtgcattcgc cagactttat ggccctggcag gctagatgaa gaccgtatag tccggatgaa 1260
caggcagtg ccagagttaa gctggggccg gtgagatcga agaaccaaga gatacggttc 1320
gaaatgatgg ctttgtttgt gccggttgca gcatgggcgc ctagttggta gatcatgc 1380
tcggcgatct cttggtagtc ggccgtcatg acgccgtgt aactgccgt cctgcttctc 1440
gctagctttt ccattggaat gccagctaaa tggctctcagc ggtgccttg catacatcag 1500
attctggtaa aaggggtggg ccgaagtacc attttcaaag ctttcatacg ctacttccaa 1560
aacgagacgc tgcattgggt ccattacttc cgcctcgcgc gcagtgatgg agaagaaagg 1620
cgcgtcaaaa tgggggacat cgtcaggaa gaagcctgag gtcgtgcagg tctgggatac 1680
cgacattcag cattggctaa tctgtattag aggtgctctt gcttactgcg cccagtcgtt 1740
gccttgatgg atggaaccag gcgtctgcat cccaactccg cttagggatg cgcgagtgc 1800
cagtgcgcc ctgctggatc atctgccaga actcgtctgt ggatgaggcg ccggcaaagc 1860
ggcaggccat gcctactatt gcaataggct cgttgctcgt catgttgctt ggtgaaaagg 1920
tcgtgcggtc aggaaatgac ggagatacta gaaaaaacac aaaacatgca acttatgtat 1980
aagctcaaca ccgagttatt cgcagagtca ttgatctaga gtgtccacgt gcatttgat 2040
ctccatccgg ggagcgaagt ggagccatac attctgagat gtaacgttct gcaggcttta 2100
tctatgttcg ctgcccggtc tcaatctata ggagttctag ctaatttact tgctccgctg 2160
ccatctcatc gttgtccgga aggggactat caacgcgttt tccatgtccc agacaccttc 2220
ctttatatat acgtcagacg acagcgtttg cttcagggat tccatgtctt cttcgtttac 2280
taccatagct gacccttga acggacgttg aatcccctca ctaacatgct tctcaaatag 2340

tgggcctgaa atttcccttt atttagcatt tctgtgtgg caaggaacaa tagcaatcat 2400
 atacacttac cggcccatga aacgtagcct tgttgatgaa gccgcacgaa gttgggggaa 2460
 tgcctagggc gaatggccag gggcgctcg agctgttgca gctctgttaa agcatgcctc 2520
 ggatgcacac agatggggaa tagttaccac gttgggtagg tctggaataa ccaccagaag 2580
 ttcctttgta ctgttctttg ggcgaaacgag gggctctgtt gtaggccgtg tagccagccc 2640
 atgcatccac tttttgcaa taaaggggag aagcatagag caggccatga ttgttttgtt 2700
 catgatgccc cattgaagtt gcaatcgctt ttagcgacat tttataggta acttcaaagt 2760
 atcatatctg gcccttatca cgggtccggc gttacgctga ccgaaggacc agtcggaatg 2820
 tacaagcttt gggcgacaat ttccggcg 2848

<210> 1899
 <211> 3776
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1899
 gcattgtgtt tttactccca acggattagt ccggatttta agatcgcggt acatgcattt 60
 ttcaaacaca ttaaggataa ggggaccag catattttat caacggtttc gctcaagtca 120
 gacatataag ttggcggggt cattggcgat catgtcttta tactggcgtc ctatgatttg 180
 aagaagtctg attgatcggc aaaccgcaa tttcagatag tccgaagtga gagaattcaa 240
 tgggcctttt tttaggaaaa gaggtcactg aacccttgt tcgaaatgta tgtgaggaac 300
 caggcaacgg ctctacttga agagacggag cagcgacgag acgtgctgtc ggcgagctag 360
 tctttataaa ggttttccac tatgaagtga ctggcatctg gctggagctc tttgtatctt 420
 cactttgggg gtcttttcca atactggcct gcgatgtcca gtcgtccggt tgtccgtatg 480
 tatgggtaga gtggctggct gtaaggtaaa aggtaagaca agtgtgaaag caagcataaa 540
 aacctactgc ctaggctgtg gcctaacgca gcattcaggc gccttcaggc gtgggtggcga 600
 ttcagggact ggcaatgatg ctccatagtc accattagag ctcttcggac tgaatccgtg 660
 tcgcgctctc tccaagtgca aacaaggag cttaacgttt cgttgcttga tttggattgg 720
 ccacgttgag ttgagctaga tggaatggat gtcggaaata gcacacgtat atatctgtgt 780
 gtatgatgga tgggtgtatgt acatgcgcag cggtattata tggatgtgta tatgaaatga 840

acttaggtac ggtagatgaa atacatgtac agtttttggg aatgctcgag gtaagttgca 900
 aggcaaacag aaaaaaagag ggaaatagga aaaacggata gaccgggctt tggttaaccat 960
 gcctaacgcc aatttccgaa agtacggggt aacaagcaga gagaagacaa gttgaagaac 1020
 tgtgatgagc aacaatagga aattgtgcaa aggagaatga aagaacagtc cggtttcaga 1080
 gcatgacatg gataaagatc agggcgagga cggaaggtga ccacaagtac tccaggcaat 1140
 gcgttcgtaa ggatgctatt cagaggcagg aaatggggcg tgaagatttg gaggagagaa 1200
 gtaggcgaca cgctttccga cgaaccaagc gagagaaaat ccaaactcgc taaataagat 1260
 aacaacacaa cggtaggaac attgctttgc ttcgcttctt tcggatatga ataatgatga 1320
 attcagatca agatcggtag gagagagtcg tgagatacga taaatgaaat aggttggtga 1380
 tgttagaaac taaaaagccc gctgcgcttc ttcccaagcg gataaaccac caaagcagca 1440
 agaaacagtc ccacagtaaa cccaatagca acctgtacca tcccgtatcc aatgtcgaag 1500
 acgacaccct ggaaaggatt ctcttggtag ctctgctggc ggtgctcagc ggtcatgttt 1560
 ttcgccgcgt cgacgaagct ctgcgtgccg ttactgggca ccgagaacgg cgtctgctgc 1620
 gtggtaatTT ggctgcca tgcaattccc gctaccaatg acccactggc tgcgaggcca 1680
 gatgggacaa gcacaaagat ggcagggagc atggctgctg ctgctaggcc gtgccgaaga 1740
 cgcaataga ggtttgccat gaccccaaca acgaatgctc ccagggcgga agagacctgc 1800
 gtggaagagt agaagcgttt cgcgccaaag tagttggtaa tgtatccggc aaaagcgata 1860
 acgagcatca cggggatctg cttccatttg gcctgggtga ctgtggcgag gcagaaagtg 1920
 aagatgatga caaagggaaa gcgctggagg tactcgttcg tgatagggct ggcagggcat 1980
 gtatagtctg ttgaggcggtg gcggtctaaa aggccgtaca cgcagtgccg attgtgatgc 2040
 caaagccgag aaagagggaa tagatgatgg cgtacaccat gcgaacggag ccggcgacga 2100
 tgctgcgtga ttgaagctct aggctggcgc agagaacgag gtagccgggg agaatgagag 2160
 cgatggagga ttgggcgagg gctgcaaagc agaagagatg gccgcctttg taggggatac 2220
 tgccaaatgc gcgagcgagg aaggaagtga gaacggcggc ggatatttca aacacgttgg 2280
 agtagagggtg ggagcgaggg gagaggacga gctgtagaat tcctaggagg cacccaagga 2340
 cgaaggcgat gggcatatcg atgggacgag caccaaaggc aaaagggcca acagatgcgc 2400
 tggcgaggcc gtggaagaga ataagaagcc agatggggta tttgttgtcc ttctgcaaca 2460

gcttgcttag ccgctgcatg gcctcttcca ccccgatcac gtcgtggatc acttccttat 2520
aaacggtgtg tgcattcagag agcttgccca agtcgacacc ctgggttcacg cgaacaagtt 2580
tcacttctgt agtgtgggta gatgcatcat caaaggagac aatcatacag ccgggcagat 2640
ataagaagtt ggcattgatc tccagcacgc gggccgtcat cttcatgtac tcctcaagtc 2700
tatgggtagg ggcaccaaac ttcattcagg ccttgcatag tatgagcaga tacctctggc 2760
gcgcaagcag ctccggcaatg tgaacagtga tgcggatttc atcttcgagc tggggcttcc 2820
ccatgcgctt ggacatcccc gggatagccc cgctactgcg ggagcgtctg agcattgaaa 2880
atggcgagct gatggaattc ttggctgtcg aaccgcgaca ggaggtgttg gactgattgg 2940
ccgacttctc ataccacttc ctgggcttct gaggagcacg ccacgaaggg tccggggaga 3000
ggccgcgggc actcaggtca ccagagctgc tctggcggga gtggccatag cggccccggg 3060
gtagattcag ggtcggctgc tcgtaaagct tcaggagcga ggacagaatg ccgccgcggt 3120
agtgagtcgg acgctggacg taggcgtcag gatcccttct ctcgataggg gtgaccgggc 3180
cagagcgag gccgctggga gaattagcac tgatgcggtt cagaaggtga aagtctcggc 3240
gagtcattctg ttcaacaagc tggtagctt cagagttgcg gttgtgaggg cgtccatcta 3300
ctaggccgta gtagtcattc tctcgtccg aagggtagtc gagctgtttt tcaggagacc 3360
ggatcatcgg aatgtcatca gcattctcaa atggctgtga cgcttctgta ggagacgaag 3420
caacagatga cggcagactc ggccacgggc tctgactggg agacttcgag ggacgtccca 3480
aatgggatgc caacttctgg gctcgtcct gcgctgagta ggccgagtgg atagccctgc 3540
ccttctcatt gctgacttca tcggtagcaa cgatccctga ggagctatcc ctggagtaaa 3600
cagcgttacc ggcagaaagg tcgagctagg tccccattag gaaaggggtg gggatcagat 3660
gcggttcgct catagccgg aatgctggca gtaggcagcg gtctctgcgg cagaggcgaa 3720
ccccttcgct gtgacgtggg gggcagggcg cctcggccgac ggtgaacttg acccgg 3776

<210> 1900
<211> 3562
<212> DNA
<213> Aspergillus nidulans
<400> 1900

tcttcaggga tgcggatatt caagcccggt tgactcggcc cgatatccac gttctcgagt 60

gcatcatgga gcaatacagc agcgtgaaat ctttctcggc gaagttgaag gagagtattc 120
 cgcgcgtcga tatcctcatc cttaacgcgg ggatccacag cttcgtctat gagaagacct 180
 cggacggcca tgagaaagcc ttgcaagtaa actatctatc caatgttctc ctccctcgccg 240
 agctactgcc attccttgaa tccacagccg agcaaaccgg ctcggccgtg cgcataacct 300
 ggctcggcag ccgcacatac tatctcagca acagcctcga gaagtccgat atcctcacat 360
 acggcggcgg gatcctgcaa tacatggatt cagagaaggc gtctgccagc gctgggatga 420
 accagtactc tgatcgaaaa cttctctgcg cgctgtttgt ctatgagctt gcgtcccgac 480
 tgaacaggga caaggttact ctcaacctgg tttgccctgg catggttaag acggacctag 540
 gcagtaatgg gccattgtgg attcggacgc tgattgaaat tgtcaagata ctccgggcta 600
 ggccggtcga agttggcgga tggtctgtgc tcaatgcggc ggttggtgcc gggaaggaga 660
 gccatgggag cttgattggg gataaggaag ttaccgagta agttctttcc atcgttccct 720
 agacataggc aggtagttag atggcaggtg acttaacgtt ataacacagg cctaccaagt 780
 ttatcaagtc gagcgctggg caggagctgc agaagcggct ctggaaggag acagttgagg 840
 agatggccac gctgacggaa ctgctttcag cttttgtcta atatctacca agctatcacc 900
 taaatattgt catctcatcc cggtagtctc cctaattgca tgtacttccc gccactcca 960
 atcaaacatc tcatttagga attcgtatc caattcaaag caaccgttgc cgtcctctct 1020
 ggtcgtgcgt ctaccattct cgctttgcac tctcacacct ccaggcttat tttgtgactg 1080
 tcgttggtca aggcctcat actcaacctt cagctggttc tgtccgttca tcatctgtat 1140
 gccatgcctt tgccgctgca actcccagtg cgcaaagaca tctctcaaac agttcctact 1200
 caatccagaa tatgcaccgg tagagccagg ccaatggcac aagtatgata ccaacagaga 1260
 agcacaccga atcggttcca cacagcgcac gaagaaccag aggtgtggcg caaatgcgga 1320
 agacgatacg atagataagt agattcggag gtatcggatg cagaggcgaa ttatactagt 1380
 actttctcag acatttctag caaaaaaagg aaaagaaaag aaaagaaaag ggggagcgga 1440
 ggggcagaat tcacgtaccg attccacaac tggcttgac cttgatcgat gccgatattc 1500
 ggatctgagg aaggtgttgg ccgtaacggg gatcgtaaga aaggactgtg gatctggatt 1560
 gccatgtgca ggtgaatcaa cgtcgccaac ctctgagccc aggaatctac ctcgctgttc 1620
 gtggtagtcc ctgcggcgga ctccatcgcg tctctcgta tccttgcatc tgaaacaaac 1680

cctcgatata tctcctctga aatcaaccct gtacttgccg ttgctgttatg aacagtgtcg 1740
ataagccgat gttgaatacg agcaatttca ctgcgagcct gaaagagtat agcagtatcc 1800
ccggccagag tatcaggccc tgccccagat attggcgctg gcaaagaacc aaatctgctt 1860
ccggctgttg ccgttactgc cagtggtaac ccggtcagga ggctatgctg aacatccaac 1920
cacacgatat gcgccccatat tctacgctcg agtctcgctt ccaaggctga accgaagtct 1980
atatctctat ccggtgtaac atgctcctgc cgatgtagcc caatactctg agcaaggcgg 2040
actgtcgaac tcacccacag ccataactct agtgatccga ggtccttgct catgaacggg 2100
tcgataatca gcgaggctgc gacagtgttc actgtcggac ggcaagatg gtcgcaggaa 2160
gtaaggatag ccgaaaccgc tgattctaga ttcttggttg tgactgattc ttgggaggta 2220
tgtgtgaag cggcagctcc tgcatacagt accgcaaaga gcacgcagtt catagtcacg 2280
tcttccagca ggggtgttggg gataatagtc gatcgtctat ccccggcctc atggcaccat 2340
tgccagaaca cggcatacca ggattggaaa tctgggaggt caatgagcgg gtacaggggg 2400
tagacggagg taatgaaagt ctgcacaaag ccgtcgcctg cgtgcctgtc aggaatcctc 2460
tcgaagacgg atgcgatggc caggaagttg atatgaggtg gaagagggtc tacagttgct 2520
ttcttgcgaa atggcatcta ggagtgttag ggctgttagg gctgttgctt cgacatggct 2580
ggctgataca gtggcactcg acataccaag ccaaggagcg agtcgttgac cggcctgact 2640
ctagagggca atctagaaac aacgtctaac cgagagacat tagagcggtc tgtatggatt 2700
tgatcgtgtc tactctgatt atcagaaact ttgctggtag tttgatattc gcacacttta 2760
ttcatccgtc tgcagttggc gcattccggc cgttctcttc cacatcgaac tttacgagtg 2820
cgacatgtca gacagctgaa agcagggcgt ggttttttga caggtgccat actcagggtc 2880
aggtagtgat gctagaagcg cataaagcag attattcggc ctgtcaatgg tattccggga 2940
ggaattcgtg gtttgtggcc gagaaacagt gtcgcttaca aattatgccc tgtttaaata 3000
tccaatttgc tgggctgata tgtcacggaa tgtcttctgt ttgccagtga cctggattat 3060
acctggttgt gcctttgcac caggtcaacg cgtgaagccc tacaaaaagg tatctacaac 3120
aacgatgggt acttagaccg atacatagcc aatctcttct ctagtgggct ttctgataaa 3180
tccctgggct gacctgattt cctcctttt ctaacgcagc atccacggca caactcgaag 3240
caagaggtta agaagaccta tgtatgtctg cggtaaagcag gttatttcat agaataagag 3300

cgaaacacgg gcggaaaggt atgggtatga tgcgatcttt gagaggcatt tccctaacat 3360
 ggttgggaga aggtgagacg taggagagac agtcaactct atatcatagt acacttccaa 3420
 tcaacagaac agtatagttt tactctagcg gcggcgatc tgcgcacata gtggccatta 3480
 cgctgtttcc aatcagccac tcacatcctt ttgttcaaaa ataaaaaaga gacactcacg 3540
 cagcaggata ccttgtccct ga 3562

<210> 1901
 <211> 3311
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1901

ctcccaggcc aagcacatgc ccagaaatcg agattgccgc agtgctctgg gtgtatgata 60
 gccgtcggcc aaaccagtcg tctgggttgt tgaacttctc catgaagaag tagcgcataa 120
 caggggtggaa tttttcgatt acctggcggt atgtccggac tcgttgctca aaggaccgtg 180
 tctgtacatc ggcaatatgt ttgcggcagg cgctgggctt catgtctcgg gggtagtata 240
 tttgatgcgc aggcatacaag aagtcattga gcggtatggt attcggaaca aattcaataa 300
 tgcccgcatc agaggtcaga ggaagaacct tgtaggctct gataccgaga ttgcgctgcc 360
 gagtcgcttg atggtctttg aggagactgc taacttgctc aaataacttg tccataatgg 420
 cgtcctgccg caggatcatc ttgcctcctt tgaactatga tactgttagc cacggccgaa 480
 caacgcgaat atgaatctta cgagctgctt atagcgaaca ccattgcttg caatagctgt 540
 aacaattttc ggtgcgctca cgccagacgc taccgtgaaa tcagggaggt acttagcaag 600
 cttgggcaca tcaactatagt cgcagtcaac gcgaatatca attttcatag tcggtggtgg 660
 tagccgctgg ttgacagcat cctgttcaag gcgtatgccg ggtgccaatt tattcagccg 720
 aatctttgca ccaactcttg ccttgctcgtc taaccgctcg acagcgaatc gaacgtaatt 780
 tatattggta ttgtggaccg ccaccacaa aggcccgata tgcctatcgt ttctcataat 840
 atcagccaat tttgcggcgg ctcgattgcg tgatagagcc gactggtccc ttccaccctt 900
 ggatttgctg ctgcgaaaga tctggtacat cccatggaac gggatgatcag agcatatgcg 960
 ataaatcagt tcggataata gagcttggaa atcgtctgac acgtcgagga gccgcgaagt 1020
 cagctggttc ataagagggg cgaacttgcg actcgggacg cctgctatgt atttcgagac 1080

tgcactgttg gcaatgtcac tgtgagattg cgcaagccag agggggcaga agcgcaggac 1140
 gtcgttgttg tatcgttcgc tttctctaag gcagataaga tagttctcaa gacattgctg 1200
 caggaatgcc tcgcgcttcg cttgagacgc tgatactcac gatcatcgag gtcgaaccac 1260
 tgtttcgtct ttgttctgtg aaatttgaga ttgtctcgtt ctttcccttc tgctgttttg 1320
 agcatcgcat caagagcaac tacttccctt tccttacgat tacgaagctg ctcaatccgc 1380
 gcaaagtctt ccagcccatc cggattttgt aactgctgat cacagaagat ggcaaatcca 1440
 tgatagactc gcccagcgtc ttctccctct gagcgacct tcaattcttt gactgcaggt 1500
 gtcaaatagt tctggatgat cgctccggt ttttctaaac gagcttcggc gatatgatgg 1560
 ccctgactct gttagccgct ttaacttcag tgaagatctg aatttgcca ccagggtgac 1620
 aagaagctcg gcacgactaa taggaattgc ttgcttgtga aggtcatttc tgtcttttag 1680
 ctgctggaga atttgaatcg agggcgccat ttcacctga tcccatagca cattggccag 1740
 gtcgaacttc gctacgcctt caatattgag ccctagcgat acactatggg ttgctagttt 1800
 tgacaaataa acagcagatc ttagcgaagc ctgggcgatg ccgtgatttc tggcaatgtg 1860
 tagggactgg cggattactt tcacttcaag aagctgtgca tcaatgtcac ttaagttgaa 1920
 ggcagacctg agataatctt tctgctttat ggaagagaac agggctctcat gagagctcag 1980
 aatctctcca acctcctgga cactacatgc cgttagtata acctattatt agcaggaagc 2040
 gcacatactc agtatttttt aaccaggaag tccttgctga gatttctcc cacttctgat 2100
 cgatttccgc cgcagatcct gaaccaagaa cttcttctat ttcgggtcaag atgccgagcg 2160
 tcctcatagc ggtccgcaat gacgtcgtg atcgacgatc actattgata agattcaagt 2220
 tgcttctata actctcgccg atagatgcac gcatgtcaac taacggccct ggagtattca 2280
 aggcttgaa agccctgaat atcgtggccg gaggagatgt gttcaacgga gagataggta 2340
 tttcccattg tcgcagattt gtagcggcct taagcatact acccagtggg acagcagtgt 2400
 cactagaatt tccaagcgca ccgatcatag agttagcaat gccctgaaga ttggtggagt 2460
 tcagtgcctt gaggacacca taggcgtttt cagatcctgt catctgaatt tcgctgtcat 2520
 actgtgcgct ctggaaaagg agattcttga agccagaact ctcgtgctcg agagtttcta 2580
 ttacggaatc cagagaggaa gtctgctgga ctccatagaa aaagtcgggg tcgtcaatgt 2640
 tcttgaaaat gtcatgcagc aggcctgctg ggagatcgta tttagcaaca gatgaccgac 2700

gagagctggc cgtacagcga gaaacatgag tttccaaaaa catgagcgcc gtcttcggca 2760
ggcggcatct actagcggct gaggaagcta ccgcgtagtt gatatccaac cagtcattctc 2820
ggteccactat tgtttcctca cccggcttgg gttgggttgcg aaggtagagg acgcatttga 2880
tgataagccg agcgtgaggg atagagtttt ctgcaccagc ccgtaagggtt tcattgaaga 2940
tttgcgatat gctgtccctt acctcagcca ccttacctcg aatctccgcc agcagagcat 3000
catgtaggat gtagggcagt agttggactg ccaaatacagg aataagggtat aatatattgc 3060
tcagtgacct aataaccggg tcctcggcgg ccgcttttga gagaaatagt cccacgtttc 3120
gtgcccagta agagggcgaa aggctaagat cccatccatg tacattttct agttcttttg 3180
cttcagagc gttcagagat atccccggac actgatacgg gctccagggtg agagccttca 3240
tgacagaagg ggaaatagca ctacgcaag gttcaaaatc agggaagttg gccagggttac 3300
tgatgatagc t 3311

<210> 1902
<211> 3358
<212> DNA
<213> *Aspergillus nidulans*
<400> 1902

ctgcggagaa agtccttagc gaactgaaag caatgaccga gcattcttct gtttttttga 60
cccgcgttaa caaacgtgat gcgcctgatt actataacgg cgagttcgcc ttctcccttc 120
cttgtagctc atattaactc tgttttagtc atcaaacacc caatggatct tggaacaatg 180
acaaaaaagc taaaggccct ccaatacaaa tccaaacagg agtttgtgga cgacctcaat 240
ctcatctggt cgaactgctt taaatacaac acaaaccag agcacttcct ccgaaaacat 300
gccatgtaca tgaagaagga aaccgagaaa ttggtaccgc tcattcctga tatcgttatt 360
cgagatcgtg ccgagggtga ggcggaagaa cgacggcttc agcttgctga tgacggcgga 420
gaagaaagtg acgatgagcc tatcatgtcc tcaagaggcc gaaaagcccc ggggaaatcg 480
tccaagaagg gtgctgcccc agcttcgaaa accccgagtg gttctgaacc tccagctggc 540
tccggctcac aaccgtcggc gcctgtacgc tccgactctg atgctgccgt ggaaggagta 600
cagaatggat ttgcaacacc ccctcccggc acgtctaccc catccgacct cgctgggtgcg 660
ggtcttgcca catctggagg acaagatgat agcatggacc ttgatggttt ggtaacgccc 720

cccaccgcac taagcgcgtt ggccacgcct ggtgtagaac ttgccgaccc tgaatataaa 780
 gtgtggaagc aagtcacgaa gaaagacaga gcacttattg ctgcagaaag acatcgtctc 840
 ttcaaaggcg ataagctgaa ttctgacgaa ccggctcttc ttgcgacgaa ggcggtatg 900
 agaagggtggc tcaggaacca gcaccagatc tcaaccgatg gcgatagttc gaatgacctt 960
 gggccaaaac cgaatgccgc cagcgagacg ctagctgaag gtatagaagt tgaagaggac 1020
 agagtaattc atgactatta cgatgttatg tctggtatac cagatcttcc ccctcatctg 1080
 ttgtggagag aagacagcga gggaaatcta gtagacaact cagaagactt tttacgggtc 1140
 cttcccaaag gactcttcac ccagccggac agcaagcttt ctcgaaagat ggatgcaaatt 1200
 atgaggcaaa tgcaggaaac caggaaaatt tgctcaaaga ttggtatcgt caaacaattg 1260
 caactgcagt ctcaggtagg aacatggtat tcctacatag catcatgcta acttctcccc 1320
 cagatgtacc agaaccagtt ccagaagtat cagccagagc cctttgttga acaggatgtc 1380
 gaggcccatg ttatgaacga caatggctct gtgatecgcc catgggtatg caaggccgct 1440
 ctgcagcgtt cggtagcaaa gatattctac cacaccggct ttgaagaata tcagccatcg 1500
 gctategatg ctgcgaccga tatggcttcg gacttcttcg tcaagattgg acagacattg 1560
 aaatcgtaca tggaagcgcc gaaagttcct gtggcagatt cagtggaagc aactagctca 1620
 ccgcagtgga aacgggcgta caccgagcca gagatgatgc ttcatactct gtcctccgtc 1680
 ggcatcgaca ttgagggact agagtcttat atcaaagacg acgttgaacg tctcggaacg 1740
 aaactcgtga ctgcacatga tcgcttacgc tcgcttcttt ctgagctcct tcgccccgtc 1800
 ctgcaagatg gtggtgaaga tggctctatg gccttcgctg acggtagtga acaatttgct 1860
 ggtggtgatt ttgccgaaga tatcgacgaa gacttttttg gcttcaaaga gctgggcttg 1920
 gacaaagaat ttgggctagc cacgcttagc gtgccattgc atcttttgca aaacaggatg 1980
 tacaacgcgg ccagggcgca aaacacaaaag taagttatcc agaccgctgc ctattcttca 2040
 atactaacca agactccgac agtacctccc aatccgttac agtctttccc ccgcctcctc 2100
 cgtatccacg catcactacc gaaaatgtat catcgagat cggcttggtg caagcctttt 2160
 ttaatgcaa attacaagcg cgcaacaacg aaccactggt cgaggacctc gaattacctc 2220
 ctaagcaaag gccatcggtt ggtcgacctc gtcttctctg ttctgggaaa atcccgccgc 2280
 cttctagtct tcttgacca acttcgagtc cacagaagcg gccactgccg ccttcagttc 2340

ctggattcaa cgcaacaaaa ccaggaagct ctgaacctaa taagaagaag gtcaagaaga 2400
 acagtggcgt ggcgatgggg gttgctgacg ctcccggatga agacgaagca gcaacaggaa 2460
 ccaatggggc gaaggctcca aacctaaaat ctgagggctc ctctaacgac ctcattaacg 2520
 gcaatgccgg agctgaaaca ttagacgctc ctgggtgctga ggattctacc aacgccgacc 2580
 aggttaaggg taatgacaat gcagtgccca tcaccaacgg aactgcaggc gacgcggcat 2640
 gacgtatgac catggtatag gtatagaact cttcggttaat gatctcttcg actgggtctg 2700
 ttggacgggt atgctgcttg tttcatggaa tgcagcactt gttgggttgt tgtctagagc 2760
 aaatcggcgt cggttgttcg gcttatecct tcaacttttc ttctgtcatt ttcttcctta 2820
 aattcaccca tccgcctacc ttcttcaatt ctcattcccc atgtgttact tggaccctt 2880
 ctattcttcg tcttggtata tcttctccac ctaattgtgt ttactttact ggatgccac 2940
 ctgcggtgct ccaacagggc ccttccagct tggtgttcta cctgcctacc catctaccta 3000
 tacctataac atacaccgga atcacatctg gtctatatcc tatccctctt catectccac 3060
 ttgatattcc agcatttggg taggcagctt ttccttccgg tggatcttgt cagcattgaa 3120
 cgcgagtgc aaagctctaa ggtggcctta tggaagtcga aactaatata cccaccctg 3180
 gagaaaactg catgtactgg gtctacagaa cggttcaaac acctcatcat gcttacgggt 3240
 ttttcccgcg ccgctaaaag gtcttcttcc tgcttcttgc tcttgctgca ttatggctat 3300
 tatcttttag tttgcctgac tttacctagg acggctggct ccgatcatat gttgtatc 3358

<210> 1903
 <211> 3883
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1903

agcaagccgg tatgttgatt gtttaattcca cgcgcttggc taatgtgcgc cggatgtaga 60
 tttcacgcat ggcagtcaag cttgttgctc actgtcatgt tcgtaagctg tgtctggcca 120
 ttttcctgag gtctcatgct catgcggtgc agataatcca ccttatattc tcatgggtcca 180
 gtttcttttc atggctacta tttatttgcg accttgcatt gatcggcttc ctcagcctga 240
 aagcctatcg cgacggtaag agccaatcat cagatctccg tatagaagct cacagtcgca 300
 gttgatacac tcgagcactt tgaggttcct gttattggcc ggctcgcgaa ctcgtttgtc 360

gacaacgagt aaatgagttt tgtcattttc gcaaaattct agcctatact aagcgacttc 420
ttcacacctc gacttcctct atgatgttca ttgtatattg tttgagttga gcatttttctt 480
tgcatactga actaccgagt tactagtga tgaatcttca gtgtcttcag ccttttgaac 540
ttttattagc gtgtcctagt ggttggatgc attgtacata ctgagatatt gttctaattt 600
gcaaataata tcaaataattt ccagtatact atactggttc ttatatgcat acccttggtc 660
aacacaaatg cttcattgca cagttctttc ctttttccaa ggataaagct gcaatgtcgc 720
ctcctaaaca gtgcaagcac ggcaacacaa tgacatttac cgctagatca acgcatatta 780
ccatcttcat gctcatcttc ttccttctgc cttatatgct ttgcagccgc tcttgcacgc 840
agtcattaaa gaagcgtcca gcttccaaat ctttctctct agacctgccc taccocatcc 900
aagacagact cggctctctc gcccaaagaa cagtctcaca tttactctgc accttcctgt 960
ctagccaaca cccatccacc ttggagagaa agccaaaccc gggaggccaa gatgtgccag 1020
gtccaacgcg ttacgaacag ctgtgggcac ataaacgacc acgtcctcat gtctgctac 1080
ctcgcaaagg acgtcacgcc gtcccccccg cttcacatc tctcctttac catcactaac 1140
ttccaagagt cgtacaattc cgcttcagct accttcgcaa tatatacgag tcagagggag 1200
cgccaactcc agagtgagga caaagaccaa ggcaaagacg aaagcagctc gatctggctt 1260
gggaaatcca ggacctcagg cagtttgagt caaggaccta actcgaacaa gaataaaaag 1320
gacgaggagg atatgattca gcgctttggg ttcgaagcaa ggaatcagcc atattgcaag 1380
ctcacggtcc ctaaagtctt gaactctccg gaaggattca aatgtatggt ttatgcgtgc 1440
ggaagggccg attaataggt ttatagcccg ggggtgtcaat tttcgacgtt tctgaaactt 1500
ctacctcaaa acaaagtcac gtttcgaatg aggaatcaag acggaaggga tacgtaaact 1560
gatggtattg gcagtggttg tttctgtcat tttgaagaaa gggaaactcg atgtacggag 1620
tatagcgggt ggaaatagac tgacaggctg acagagacca tctcaagata accgtacggg 1680
gggttctagg gcttgacgac tccgatgttc tccgactctt tcgtcggagt tgaaacgggc 1740
tttcagttgg tcgagcttac atatcctttc ccctttaatc acttcacctt gcatattagt 1800
atattacagg cacaatggta tagtaaggag aaaaagtcaa taagtgccat tctgaaggac 1860
aaaatcctaa aatcaaattc cgattataaa tcaaaccctt aacatcaaaa aatcccaagc 1920
aatccagag cccaaacat cagcataatc gctgtagaaa gaaggagaaa aggcaggaaa 1980

gattattatc gaaaacgaca gagtatgcgc aggtcatagt gagcaagagc gaacgtaagt 2040
aaaaggattg aaacgtgacg aaaacgggaa aacaatacat caaggatttc acttcgtgag 2100
cacatcatag aagcaataag gagtgaggaa caagatatct catcatagat agccatgaac 2160
atcagtaaat ggccggtagt gattgagggc aggtaggggtt agattgagat ctaaattgatc 2220
tggagataat tgcttggcac caaccccgtc cttaggcggg tggtagtgac ttcagcttcc 2280
caccaaccgt catcctgaag ccggataacg gaaaggacat cacctttctg gaatccaagt 2340
tcttcaggaa tggcagcggg gtagctgtac agtgcgcggg ctatcaggac agtaaagggtt 2400
agtatgaagg tgtgcatgac atggatgatt ggccggtaca tctggtacat accaaagtgc 2460
aaaatggggc ggccatcacg gctaaactgt ctctctggat ccgcgaccgc catcgatcga 2520
ctctggatc gactgcgctg actaccacca tcatagtacg acattggtct tctagattcc 2580
ctctgcgggg atgcgtatcc gtcgccgcta ctgccgtaca tatccggctg tgaaagctgc 2640
agctccattc caccggcgct cgaaggctga gcttggtgcc ggaactgagg ctgggggtgat 2700
acagcccttg gcatagagtt ctgagagggc cgcttggcga agtcattggg tgagaccgcg 2760
cgtggaatgg acgtttgctg tcggtattgc ggctgtgggg atacagctcg aggggcagaa 2820
gcttgctgtc ggtattgcgg ctgtggggat acagctcgag gggcagaagc ttgctgtcgg 2880
tattgcggct gtggggatac agctcgaggg gcagaagctt gctgtctgta ttgcggctgt 2940
ggggatacag ctcgagggac ggaggcttgc tgcttgaatt gtggctgcgg ggatgcggct 3000
cgagaagctg agctctgaga agatcgcttg gcaaactcct tcggtgaggg tgccctggga 3060
gctgtggttg tagttggcga tggagcagcg cttgcagaac ttcgctttgc aaagtcatga 3120
ggcgaatatg gagagtcgct tgggcggtgt gggggagtag agacacttgg ggattgactg 3180
tgacgactct tcacgctgct cgattggtat tggcttgat tggggcttgc agcgcgactg 3240
tattgactca ttcgtgactc tcctcgagtg gccggttgct gttgcggttgc cggttgaggg 3300
cttacgcttc gcctaggagc agcgggtgat ggcgctcgag tggcttcctg agactgcctg 3360
gggctgcgac tagacaccga gaccgggttc gctttgcccc ggagcatatt atgggtctta 3420
cctgtatatt gctgggtggt tttttgcatt tgctttgagg tgaaggccgg ctggggagca 3480
tcgagacgct tcaactgaggc atcgttatat gccgggggtg gtgtggccac ggagtttgca 3540
gtgaagttcg atgcaggtgc agaaggaact ggcgtagcaa taccatgata cctatcagca 3600

gagacacggg ttgccgactg ctttccagcc acttttagat ccgctaatagc gcgcgcgatg 3660
 gggtcggtgt cctctccatc atttgccggc tccgcacatc ttggcgcagg tctacgatca 3720
 tctggagagg caacatcaaaa cacgttggtt ccaacatgta aattgaaagt tagccctagg 3780
 atcaaccggt tcagcgatag cagatctagc aatatcatct gccgccttcg taagcagctt 3840
 ctgaagaagg tgaggctttt gaggagtgg agctttgata gga 3883

<210> 1904
 <211> 3070
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1904

aaagaaagaa aacttcaagg ctctcaccac cgggggacgc cccagaaatt gcagggctaa 60
 gtcgccccct gcccttcttg aaggccccct tggggatgcc aaagccaaac cgctcgtcca 120
 aaaccgggtt tcggtcaaaa acaattaatg cccagctcct caagaatgac acaaacggta 180
 accaccgtat ctggatgtac tagagcgggt gaagtcaccc catcgcagta gagatgaccg 240
 agtacatggt gagtctgaag ggtgagtacc ttgagattcc tcagaagggg tacgttgagg 300
 gcccgtaggt gttgaagaga cacggcatct attattttat gtatagtgtt ggccgggtaag 360
 tctggtctgt tcgcggattc ggatgctcat ggttcacggg tctgtccagc tggggagata 420
 attcatacgg ggtaggttat gtcactgggc cctcgccaac tggtcctttc tccagcacgc 480
 cgacccaaat tctccgtgga aacgatcagg ttggcaccgg cactgggcac aatagtgtgt 540
 tcacacctga tggcgaggag tactatatcg tctatcatcg gcggtatgta aatgatactg 600
 ctcgtgacca tcgggtgggc tgcattgatc gcatggaatt tgactccgaa gggaacatcc 660
 ttccggtgaa cataaccatt gaaggagttg aggggaagacc attgtcgtga ttaggcatct 720
 tcgtaaacac ttgttatatt taggggacgc atatcctgaa tctatataat tgacctagcg 780
 ttgcgtacgc atatgctcct aacacaacgc caaactccgg ggtatctgcg aaatcaacaa 840
 aaggatactg atgggcaaaa aagggaagac gaaccgagac aggcagagcg tccatcaaaa 900
 catggagcta cgtttcttcg acagcttccc atcctcagag actcgtcgca gcccgaaaaa 960
 actactccgc ttgttctgca gatgcggctt ggccgcgggt tgtggtcctg ctactggggg 1020
 tgtagcaag gacattgtag acatttgacc gggcaattgc aggtacggtc gggagcctga 1080

gtgcggcatt gacggcccag catgattgta ctgaggacgt ggggggtttcc ttggaggcag 1140
 agctgaagtc tgcgcacgag cttttctttc ctcttcacca tagagcttct gcaaccggcg 1200
 cgtttctttg tcaacctcgg cctgccgtct ccgatgggct ttttctcct cctcaagcag 1260
 tctctttgtt cgtcgctctt ctctcttct cgcctgctcc tgttgctttg taagctgagg 1320
 actgtggaca ggtgggggtt gaggtgctgg tggaatatcg gtcaccaagc cgcttgggct 1380
 ggcgggcagc ctattcgtag atggagtggg tgtaggagag ttggatgttg gtgagacgga 1440
 agcggagttt tgcttagaga tgcggaaggc ctcttttggg ctggcaaat acacgtcgcg 1500
 gatggtaatg gctccgagca ggagtacaac ttctagacct ttaaagtcct ccatctcgac 1560
 acggtacagg tttggttcgt acaaagtcag ctacgcaat cctttgaata tggagacagt 1620
 gatatctggc tctttgcttt tgggtctttg ttccgggtatc gcagtcgttt tcccacgaag 1680
 aaggcaagta aggtcctttg acagcttgcc atccttcttc caactaaagc gtagcttggg 1740
 cgtcgtgtcc gcggcggcag gatcgatttg gacgcggctc agagtagagc cgggtgggtac 1800
 ccggaaactg tgctgcggca tctcgaagga ccatgaaggc gggctattcc agctcttcgg 1860
 cttgtagtgc acaatgacct gttggtcagg gttgtagagc tgaatcgtga agcgcgtagg 1920
 gagaataggt tctggcggag gggagacacc attgttctgg cggatagctt ccgccgatag 1980
 tgttggtga gtccattcgg gtattattaa cacttcgccg tatacaacgt ctggcacgta 2040
 ggggtcgtag agggctacgg cgaagcgggt cctggaatcg ggagaggatc ggtccgggta 2100
 gcggagagag tacgctgggt cgggctcgtt gccaaactgg agaaggtaga tggtcgatac 2160
 attggagtcc ttaaccgggt tgaggtagaa tgctgtgttg gttagtctc cgcatggaat 2220
 tgcggacgac tgaggacgca ctgggaagat tctcgtcaag catttcaagc cgacgcggga 2280
 agttatccag tagatgtttt gaatgcagga aagctggtgg tttgcataga tgtaagccaa 2340
 gatacaattg aattgatggg agaaaaagt ctttataagg aaatgaaaca ctgccgtcta 2400
 agctccagcg actgggaaag tagatgacga agcatgatca gacacagcgg gaaggctgat 2460
 tggctccctg catcaagaac cgttctaagc cccctccgc acacaaaaa tatcgccccg 2520
 gcatacacag gcagagatat tcttgccctt cagccaaaga aagaccctt atcgatcatc 2580
 ataattaaaa gaccgcgtcg agccctcttc catccgaaac tctggtgcct tagctcagcc 2640
 ccagcaaatac ggacatctcg gattctgcct cgtatcacca taccccaagc cttcgttctt 2700

cgcgctaagc catgatcatc cacagctagt gtacgaactg accaatgtcg gccgtgcgag 2760
cctcttcaat ctccattgca aagcatcgtc aatattcatt ctgtcaaagg aatcgcatcc 2820
tcgcaaagct acaccattac ccttggtgcc tacgcgcttt gtttaccag tcaactttga 2880
ttatatggct tcattataat actagctgct tcagggctca agcgaaagcc gccggggcgc 2940
taaatgtttg gttctttctg tatttgccat cagcgccctt gtcgtctgac gatcaagcaa 3000
aaacgttacg acatcctcaa ctattgagcc ttggttgagt actcaggcga tctctctcct 3060
actttgctcc 3070

<210> 1905
<211> 3358
<212> DNA
<213> *Aspergillus nidulans*

<400> 1905
gctctccggt ggatccagta tatgcccttg aaacgttacc aagcaactgt actgcgtcat 60
ataccatctc atcttcgata tcgaggatct gttgttaatc ttgagcacgc atggaggtga 120
ataacaagca catttccgta aataatctgg catgtggtcg acatatttaa tggacgtgat 180
ttttcccata cttagagaac ccaatcttgc cgagattcct tgggtcccctt aacgagcgaa 240
tagtattgca gtcaaattct tctaaagtta tcgataagac cggcgtctgt tcctgagcgc 300
gcgttaatcg agctgtttct acgctgctac gatcgaactt gttgtccatg attgaaaaaa 360
ataggtaaga aggcgggtta gtgaagcaga gaatggggcg aaataacatc tcagaagccc 420
agatctggct agaacaggta catattatct tagtctcgta cctgtgtcca aaggaagaag 480
gttaagcgac atcgtttccc cagctggacg ttgtaggtgc ttgccagtag gtacggtgca 540
ttctccgcgg ttagacccaa ggtagagtcc aatattattc actctctaaa tctcatcgta 600
tgattgtact tcacatgggc cgcggaatag ccttgattac tgagcagtcc ggaactgcac 660
gagagagtgg agagccggcg gctttcactc cgaagcgta tttgttacta ggccctattt 720
gggcaggcaa taagaacatg cagtccccca gcctccaagc atagcccccg acgatcatgc 780
cctatatcaa gtcaagtga cctgtagaac tcggtgttct cacgtatata cgtgactatt 840
cccccgctgc aaaagtacac taatagccta ccctggctgt aactcacgct tccggcatta 900
ctttcccgct acaaggtctt ctccaacctc taaatgttga acacatttat gtttgccact 960

cgaccgag gagatactg ctggctctga agcataccct gggaaagggg tataatacac 1020
 tgcttataca tgaccatatt atcaccgaag tggggtgcat tcgcttatgg cagcctataa 1080
 tattaacgtc tcaattgcaa ttatggagac gattgagggg cagtggatga cttaactggt 1140
 ggggtgtaga tataaggtgc tgatggacgt aggtcgccgc tgggtggtgca gactgtggag 1200
 gtggaactgg cctagttagc gtgcgataaa gactgatgtt gagaatatgc tttcaaaaag 1260
 gccacttatg gaaatggttt atttaggcta tgatcataag ctcattggcag cgtgtgtccg 1320
 tagtgcgagc tcgaatcagg gttagtgtat ttgagcttga tgagagagat ttagtatatt 1380
 ctcaatctcg ttttattgtc actggctcct gttttcaacc tgtaaggaa ttgaccagaa 1440
 atactcacgg agcagattgt ggctctgcaa gagcaagcaa atgggctctt cagtacatct 1500
 ctccagccca gttaccaagg actaaatata gccgttgcat actacacca gtattactcc 1560
 atgggaggtt cagctaaaag agcaaccct gaattagcat aatccgctcc acgagatagc 1620
 tgagatgatt gtccagggtg agttgaaaag catgggtata ggtgcagcgc cgcactccag 1680
 ttgtcaggct atgacagtca cagataacta tccacgagct cgtttatggc accgtgggca 1740
 aaggaaggt gggggggtat agcacgggtg gggcccttc aagagtacat ggccctcaga 1800
 cacgtaaaga tttttcgtt ctccatgctt atctcgttct catgcttctt ctttggccac 1860
 tggtaaaagc atcggcagcg atttgagatt atgccaataa gccagtatgt actaaacact 1920
 tccaattcaa gatacgttc aaatttcata gtctgaaatt cggcttggga acgccctgag 1980
 gattttctg cgcttctggt gcgaactcct ggttcagtca tcaatgcttc aacgtcatag 2040
 ccattactat ttatgtgaaa tggatcgact gcagatattg tgcacaccgg ccattttcat 2100
 gtcgcgggtg tcgccctaatt tggtatcatc atatgcacaa tccagcagcc agagtccctg 2160
 gcttttacct ctagtcagcc aacaaagctc ctccaacaag gaatagagag ccgatgtcta 2220
 aaatcagggt attgaattgc cgatcgagat tcaatacgcc gaacaattgg tcattctcta 2280
 atcgctccg actacgcca tagtgataac ttgcgccgc gtcaatcacg tagacatcca 2340
 ctcaatggat caagggtgtc agaattcaag gagaatatgc aaaaggatgc ctagactctg 2400
 taatgtctcg gagatgggca tgagtagggc ttgataaatt aacaggaggg ctagaaaaat 2460
 ccgcattatt acattacgcc gggatggtct tgtccagccc gcgcaatcga ctatgcaaaa 2520
 tagtaaccaa tccagaaggt aatgcgttgt tggtatgcat cctgtctatc aatgacgttg 2580

gcggccactg gaagctgcta ccagagcgcc acttatgcgc gaacgttaga gatgcacctc 2640
 aatcaccggtt acctgcagta tcgtgcattt cccctcaatc tccaaccaac caaagcgggtt 2700
 cctcaacctt atacaccag cctgtgaggg gtcttgccgc ttgtttcgga ttgacttcct 2760
 gatagagtca gctgcagctt ggtaggacat gcctgacgag atagcagtat gtttattctg 2820
 tcaatggcac tgtatatcgg ttaacgccac gctcatggat tgggcacctg caaaatagct 2880
 ggtctgcgat ctacttagtg catttgccat agatgcagct agcaagtaac ggcaattgca 2940
 ttgattgaca gatgccctaa aagctgggtg cttaccgagt ggttcactgc gatgctctcc 3000
 ttcttttaca caccgagctc aactcaagaa tggactttct aatggaatac ggcagtcctg 3060
 ctgggtttttt caccattttc gctacattat ggctcgtata ttgtctgttg cgcatgctgt 3120
 ataatgtctc gccgttacac cactgagcc atatcccggt gccaaatctc gcagccgcaa 3180
 ccttcctgta cgaatcatgg ttgacctgg ttttgggcgg caaatacacg cacaagatcg 3240
 agagaatgca cgagcaatat ggtaatcctc cccccagtt gtcgccagaa aggaaacagc 3300
 gctggaatgc cctcgtcgtg gcaggtacgg tggtgcgct ctctcccaa taacgccc 3358

<210> 1906
 <211> 950
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1906

tgtttttgta tacatgaccc tctgacagaa tgccagagag gaggagagat gtcctcgccc 60
 cattcattcc ccctttcccg ctggagagag cacctaagcc tgaacctatg aggactgtt 120
 ttcataagcc tgatcttcca aatggctctg tttttgtgag cggaccaaaa gaaagccttg 180
 aaagaaatgg caacggtcta agactgccac ctcggtcaca ggtgcactta caaacagga 240
 atgtgaatcc acaggaccac gtgcttcctt ccatcgagaa tcctcttcctg gtggagatca 300
 aacgccccaa cagtggccat atagagcacc ttactaagag gatgtctgga gctttcacct 360
 ttcgctcagt aacaccacac cgccaggtgc accatgatct tccaagtcgt acttttcagg 420
 aacctgttgg tcaagaccac atatccaaaa gacggcgttt ggcataccac gagccaactt 480
 tagtggaaaa acccttgtct cctaacggac ctcttttgag cactcaccca ggaactcggc 540
 atgcccggcc ttttgtccag agtgggtccc atgtccgtag gccatttgtt tccccactg 600

aggcgcgctcg tatcgcacaa cacgagccaa gcattggccg tgactctttt agcactaccg 660
ctcgctttga tgcgagcaa cacacactcg cacatccagg atcgatcaaa gcttacgatg 720
gccagcaatc ttctacaat catcttggtta acaccaggc cgcgtatgat agatctccag 780
ttcaggctcg taccggtct gacacgagat ataccgcagc cggcagtaac ggctatgata 840
ggaatttgca gccctatttg tcagacttac cagagcaccg tgtatctcac aacattaagg 900
tacatgatga cgctgaaatg agacactagc gacgacgggt acttggttag 950

<210> 1907
<211> 3318
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 1907

gtgcttctat gccgataccc tgcattgtgca taagatacaa tgcttagaga actcatgggt 60
tatttcttcg ctgcccactt aatgactgaa taatacaaga ccgtagaca tgtgattgggt 120
tttgaccgaa ttgacatacc ttaaccaatg ttccagactc aggatatagt aaacggccca 180
tatactgctt gcatatactg cgcagctaag gttgagcctt tttcttgga ctaagctagg 240
cacaacggct atgggctcga acaagacaac ggggtgacta acaagagcat atttcaagag 300
aagttaacat tgaaataaac ataacaagtc aggccatgca gggcatccaa gctaagagct 360
actaagaaag atcaagcacc acccgccctt gcaacttccc ctctccatc tctttgaaaa 420
tttcagtcaa ggcctccatc ttctctccc ggaagtgcgc cttaatgaca cccctcgccg 480
caaactccat agtctcaatc gcctcgttcc tatttccgac agccgacca gtgacatgca 540
catgcttctg gataaacagg cctgggtaag cacttgcatg agcctgcggc tcgttctcgg 600
ggataccac gcagaccatc gttccgttgt accggaggaa gagcaaagac tgagcgtaag 660
caatattgga cgccgtgcaa actatgacag catgcgaccc aagacccttc gttgtaagcg 720
atgtgacgtg cgaggagatg gcctcgaatt tatcgccgtg tgggaacttg gtgatatcca 780
cgaagtgtc ggcgcctgac gccttgacga gctcttctt actcccgtgg tcaacgcca 840
tcacacgcag gcccatgccc ttggctgca tctggacggc taagtggcca aggccgccg 900
cagcgccgga gatgacgatc cattgacctg gttgggctt actgcgctta agagaagcgt 960

agactgtgac accggcacag agaaggggcg ccgcttcggc tgatgggagg ccatcgggaa 1020
 ttggggtaac gtattgcgca ggaccgagca cgtattgctg gaatgtgcca ggggtgtagt 1080
 aacctgatac cttttggttg aagcagaggc cgtcggcgcc gtcctggcat ggagctttgc 1140
 gttgttagca agttttggtt aaaatgcgtc taaggtgtat gtacgtacgg cactgcccac 1200
 aggcgctgga aatccactta acaccgactc tgtccccgat cttcaatcct gatgcttcag 1260
 gcccgcgccg agcttcacca ctttgccaac gccttcattg ccaccgactt gtccgggctg 1320
 agtagggaag ggtagtatct tccactgtat catccattag catgcgttcg cccttgatga 1380
 gactccagga caggaactaa gtgcctaccg tgttgggtcat aatacaaaa tctgagtggc 1440
 aaacgccgga atgagtgcta caatgttata acgttagtaa ttggtacatg ccagtactcg 1500
 actcggcttg gatatcccat tcctccaagg taacaggtat atccagggca cgcacagatt 1560
 gatcaggact tcattgtcgc cgggctcagg tacatccagc tcgacgacct tggtagagac 1620
 ggtaccgggg ttgtcgtaga tgacagcctt ttgcttcttg gggatttcag gagcagccat 1680
 tctgacagat ttcgcggggc ttctcttgta tcgttgataa gataaatgtg ggaaggtgaa 1740
 agaagtagag gaaggacaag cctctcttta tatggctatc ccagaccaga gcaacgtaac 1800
 gccaagtcga ctatcatctc tagcctgacc ataaccttag aagcagtcag gtagtctgat 1860
 tgctgatatg aaaatgaggg gaaagggcat ctccgcaggg aggggagagt ggctgatcca 1920
 aggaggagag agcagtgggc cttaggccag cccaaagcag gagtctgaga gagcgaagtt 1980
 tcagcatgac gcagctaagc tagaatatcg cattcatgga acgtgggtatc atgattcatc 2040
 caatcagtct cgaggcagcg tgagggggcg cggcgggcca ggaggtgccg tgggtggaaca 2100
 gcctcggtta cggtagacaa ataagacgcg tttcatagtc ttttgagtcc gtaacagtaa 2160
 actagctgac ttgagagtgt tcgtaatgtg gtcttcgcca atgggatccg acaggttcaa 2220
 ggttgggacg gaaacactgc ggaacttggt gtcgaattgt cgatgtgatg gcggggaaaa 2280
 cgcggggtcc aggaggagga accatagcag gaccgcgacg atgtctagga caaggtctga 2340
 ctttatatcg cgtcgaagtg agtaccctgg actccaagcg tcactcacta tataatgaac 2400
 cttcttgaac aagtctatgc caatgatgtc aagccgtaat gcctatggcc agttcgggtct 2460
 gaaatcaccg gacggcaacg gctaatatag atcaaccgcg aatttaccgc cgatatctca 2520
 ctcttatatg gtcatggcat cctgacgttc ttcttcacca tgtctagacc agaaataaat 2580

cctcttctgg acctctggac acgtaaccgc tcaagatggc cttccctatt gtggactcgc 2640
acatccatct atttctgaa tcccaccttc ccacactagc ctggtataca cctgacaatc 2700
cactggcatc tcaacattca gtcgacgaat atcgttctgc agtgaaatcc tccacatctt 2760
tacgcggtt tatatttctt gaaactgacc gcctctcatc ggtcgaagag tcggagacgg 2820
gaaagcatgg ctggacccat gccctcgatg aagtttcgct cctcgcacga atcgcaagcg 2880
gtacacctct tccgggagag gggcacaaatg ctgaagatcg cgatctttgc ctggggatag 2940
tcccggtggc gcctgtatct ggaggaccgg atgcgttgga gaagtatatg gcgctagtga 3000
aggagagagc aggatcagag gaggtttggc gtaagatacg aggcgtacgg tatttggtgc 3060
aggataaacc agcgggggtt atgctgcagc cagcattcat tgaggggttg aaatggttgg 3120
ggaggaaagg cttgactttc gacttgggcg tggatgcgag gcaggggtggg atttggcagc 3180
ttgaggagc gggtgagatg atgagaaggg tttncgaggg cgttgaggag caaaaaaag 3240
tcacgcttgt gattagtgcg tcaancctcg ccgtctattc agagtcttaa tttggtgcc 3300
tgcgataata tgctgcct 3318

<210> 1908
<211> 1734
<212> DNA
<213> *Aspergillus nidulans*
<400> 1908

cccctagggt caagcaagag ctcgtacggg gatttggcct gttcagtctg acgagtctag 60
ggattattat tgccaagtga gctatttttt tggatttctt ttatctatct ctccatcttg 120
cacctgcat accagacag tcacctatct aaatgtcgtc aataacagct cgtgggcccgc 180
aaccggaggc acaatcgta ctgcgctgta caatggcggc ccaatggccg tactctacgg 240
cctcatcggt gtcagcatct tctatgcctt catctcagcc tcgctatcag agctcgctc 300
agccatcccc tcggcaggcg gcgctatca ttggctctcg gtcgtcgag gccggtacgg 360
ccgcgcggcg ggcttcttca cagggtacct gaatgcctgc gcatggctac tcagcgcggc 420
atcgatgagt tcgattctag gcaacgaagc agtagccatg tatctactgc gtaaccccga 480
cgtagaatgg cacagctggc agccgttcat cgtcttcag attgtactct ggatgtgctg 540
cggaattgtc tgctgcggga ataggttctt cccgctgttg aatcgaattg cgctcatttc 600

gtcgatgggt ggcttgttca ttacgattat tgttctcgct gctatgccgc gtggtcggtg 660
 ggccagtaac cagcaggtgt ggaggactta ttataatgaa acgggggggt ggtctgacgg 720
 catttgtttc ctgagtggcc tgctcaatgc ggcttttgcg gttgggacgc cagactgtat 780
 tagccatcta tctgaagagg gtaatgctct tccgtagcat tctccatgat gggatagata 840
 tagcatgcta acaggggtggc atccagtgcc gcagcccgaa cggaaagtcc cgcaaggaat 900
 aatgctccaa ctctcacag cattcagcac agcattcacc tatcttatcg ctctttttta 960
 cagcataaat gacatcgacg ccgtcttcaa cagcgcactc aacttcccca ccgccgaaat 1020
 ctacctgcaa gcgacaggct ccaccgccgg cgcagtcggc ctcgtcgcac taatgttcct 1080
 cgcaaccttt ccaaccctaa tgggcacct cagcacaggc ggccgcatgt ggtggtcctt 1140
 cgcacgtgac aacgctaccc cctttgcgcc gttccttgca aaggtccatc ctacccttga 1200
 tgcacccggt aacgcaactg tcgcatgac aaccatgggt acgtgcctag ggtgcatcta 1260
 tggaggaagc acgacggctt ttcaggcatt gatcagctcc ttcacgtac tcagcacgct 1320
 ttcgtacgcc ggccgcatc tccccacct gctaagcggc cgaggccgcg tcattttcgg 1380
 gcccttcgcg atgaccgaa gctggggatt cattgtgaac gtgctcgcg tgggtgtatat 1440
 cgctgtgacg gtgggtgtct tctgcttccc gtttacgttg cccgtgacgg tgcagaatat 1500
 gaattatact agtgtcatta ccgtaggttt aatgacgatt gtgctggctt ggtggactgt 1560
 gcgggggatg agagagtatc agggcccggt gtatagtatc gaagctgcgg aaaagattgc 1620
 tcatgaagag acggagaggg ttgccgagga gggtggggtc ttgggagagg ggggtgggac 1680
 gagggaataa gctatagtat agattatacc aacgaagtgc ttgcaaacag ctga 1734

<210> 1909
 <211> 4454
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1909

ttctggacct cccgtgcata gtcattgaca gccggcataa caggtacaat caggacctga 60
 cgcgggctga tccagaacgg ccacttgccg ccaaagtgct cggatgatgat acccaaaaac 120
 cgctcgaaac tgccaatgat cgcgcgggtga atgacaacgg ggccgggcacg gccgggtgcg 180
 ggctcggttg acttgggggc agcctccttc ttcgcttcct cctgggtagc ctgggtcttt 240

tcgccagtca tgtactcgag cttgaagtta aggggtgcct ggtaatcgag ttggatggtg 300
 gcacactgga actctctctt gagagcatca gcaatcgtaa tgtcaatctt aggaccatag 360
 aaagcaccat ctccctcgtc aatagttcag tcgtcgccct tgaacttggc catggccttc 420
 ttgagctgct cttcggcgta gttccacgtc tcaagctcac ccagatactt ttcaggacga 480
 gtggaaagct tgagcttaaa ggtgaagccg aacagtcctat atatggactg caggaagtca 540
 aagagtcctt cgatttcgga ttcaatctgt cctcgtcagc aggtctgtag gatacattct 600
 ttgcaaagca tcttacctga tcgtgggtac agaagatgtg ggtatcgtct tgctggaact 660
 ttcgaacacg ggtgagaccg tgaagagcac cagacgcctc gttcctgtgc aaaacaccaa 720
 agtcccgcat tcgcagcgga agctctcggt agcttcgctc gcggtggccg aatagcacia 780
 agtgaccggg gcagttcata ggcttgagag cccattctct cttttcaaca tcaagtttga 840
 acatgtcatc cttgtagtga gcccaatgac cggaggtctt ccaaagtcg acgtcgtaca 900
 tgttggggtt ctggacttct tggatccctc gcttgcggtg ctcggaacgc aggagggact 960
 ggagggcggt gaaaatcctg acaccgttgg gaagaaggaa cgggcatcca ggcgacacgt 1020
 catcgaaaaa gaaaagttct tgctccttag cgattctcag gtggttgctc ttttcagcct 1080
 cctcaagaaa tttgaggtgc tccgccatct gtttcttgct ggggaacgcg acaccacgaa 1140
 ttcgtttag agagtcgttg ttctggtcac cgaggaagta ggcagaggag ttctgctagg 1200
 ggttagcctt aacgctttta ggggattcgc ttagtatagc tgacctgcat gatcttgaag 1260
 gtcttgacct ttccggtgct ctggatatgg ggaccctgc agagatcaac cagagtacca 1320
 catcggtaaa cgggtgctct ctccccagt acaagtttgt cgatgtagtg cagcttgtag 1380
 ttgctgtacg caaacatctt ccggagattc tccttggtga cttccaatcg gtcgaaactc 1440
 tgcttctctt tgaaaatctt gttggccctg ttgtcgaggg tcttcagtc ggactctttt 1500
 acgacacggc tgcttagatg tcagtgactg tagcgaacgg acgaacgaga tgcgtactta 1560
 tcaggcatag ccatatcgta gaagaaacct tgtggagtag gcggcccggt ggagagcata 1620
 caccgtact cgcattcgca agcttcacct agacagtgtg cgctcgaatg ccagaaaact 1680
 tcccttcctt caggatcgct gaaaggaaca tacgacactg tgcattctcc ctccaatggg 1740
 cggcctagat ccagagctg tccatcaacc tttgcaataa caatatccgc gctgatctcc 1800
 tttgggacgt gtttcagtag ctgcgctggt gtggtttccc aagccttcga gggaatcgtg 1860

gtagtatttc catcgccgag ttgaaggggtg acattgattt caggggtgagg cctgttcttc 1920
 acctcctcca gatgctcctg ccataactcc tcaaacagct tgttccgctc aataatgaag 1980
 tcggggagcg tgtcgcccgc tacaacaatc gacatagtca ggaggggttc gaagattcag 2040
 cggggcaagg aatacgactc actggccggt ttagcctcag cggcagcccg aacaggcaaa 2100
 tctttgggac catcagaagc cataattgca cctctcaaca aggaaacaag aatgatcaaa 2160
 ggatatgggc gttctcgga cgagagggttc ttttgatgtc tcaagcctct agaaagttga 2220
 ctcagatctg tgaatcatac ctaccggaa ggcggtgagt aactcggcta gcaacatttt 2280
 cctttgaggc tcccgcggtt tgaaaacttc tccgcttcag tccgcaccag gtcgacaaga 2340
 acaaccccaa catcaagatg tcatttcgcg gaggcggctc tggcggcttt tccggtcgcg 2400
 gtggaggctt tgggtgctgt ggaggttaagc aattgtgaca attgaagaca gatatgtgtt 2460
 tgaccagagc taaatgaaat ttttttggat aggcggcccg ggaggtttcc agcagtcttt 2520
 tggaccgcca gaccaggtgt taggtgatta ctcacattga aactggcttg gaggcacaa 2580
 ccggctaatt acaattttag agatgggcac tttcatgcac gcatgtgaag gcgagatggg 2640
 ttgcgaatca atcaaccga agattcctta cttcaacgcc cccatctacc tggagaacaa 2700
 ggtacgagac gagcaatatg atctgggaac aatttgacta atgattgctt tctatagaca 2760
 cccattggca agatcgacga agttctgggc cctatcaacc aagtatactt caccatcaag 2820
 cccaagaag ggatcgctgc gacgtccttc aagcccggcg acaaggttta tatcgggtgg 2880
 gataaactcc ttcctattga gaagtatgca tctttctgcc cttgggagag tagtagcccc 2940
 gctgaccagc tatatcaggt tccttcccaa gcccaagcct ccaccggta aatatatcca 3000
 ttctgtaaca tcgccctctt acggactctg ctaacaagac aataggtgcc aaagccaaga 3060
 aggcagtcgg agctcgtggc ggcggctcgtg gtggctcgtg tgggtgctgc ggcggcggtt 3120
 tccgtggccg cggcgggtgcc ccagaggac gtggtgcacc tcgtggtgga agcttcggat 3180
 tccgcggtgg tgctggcggg aggggaggtg gccgaggagg gcctcgcgga ggcttccggc 3240
 gttaaaacgt gacagcttct ctgtctttgc ctgctcctgt cttattacgg cgttatggga 3300
 acacgggaat tatgtcgata attttgacca cggtcatttg agaaaaattg gttttcatct 3360
 agtcttgaat tttgtatgat ctgatcttct ccgcggtgtt gccgtgacct acgttgata 3420
 cgaaatcagc ccacaatagt tacacgtgct caacggccag aggcattctc agtttaagca 3480

taatccaatg ttgaactaga agcggttattt tgtcaactcg aacagagaag cttagaacct 3540
 gcttgctggt agacgtggct gagtgtggcg cagcgatgac gtctagtcgg actgctgaga 3600
 gcctgaaaga agcgagagcc tgcacgtgca aatgtcaaca cattctccat cggaccgcaa 3660
 ttgcagccca gtattgcttt ctacctaagc atcaccatt tatattactt tctagccact 3720
 atttacccta taaacctctt tttctagctt tcccttgtat gagcatgttt cgaaggactt 3780
 cagccatgcc cgcgaactcg ttttcacaca gtgggtgtctc agtgactgcg gatggaggta 3840
 tgccaggact gcataaatga catggctcag cttattgcca ggaagttgat tagctcatga 3900
 aaaccataat gatgcagtgg ccatccaaat ctagtggact tagtttgtct gggccagatc 3960
 ttccgtgcct agaaaacttc ctccctctc tgtcagtgtg attctcggcc ctctgcacct 4020
 atgtcacct ttctctcgtc cttctcttcc aaaggctttt ttttttacct cattccgagt 4080
 aggtgatcta acccttcttt taactttgcc ggtctctata tattctccct tacaacgcct 4140
 tttatgtcct ttatctgttt tcttaacttc cttggttgct ctttttagac ttgtacctcg 4200
 taatttcata tctcgtatcc attattgatt acctatcact gtcccttttt ctcttatctg 4260
 catctcttac ttatacttag tctatttctc ttctcctctc tttaaattct atcccttctt 4320
 cctatatccc cctcatactt tcattctttt ccttcgcact acattcactt cctctcttaa 4380
 cttttatttt tctttttaat aactatatat tcatatttct ttcctcaatt attctacctg 4440
 actacctctc ttaa . 4454

<210> 1910
 <211> 8709
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1910

tcgccgttct ttgaattaat ctaccaatca caattccttc ggtctcaaatt gggcatcaat 60
 ctctttgcct ttaaattccg aaacacaaac cgcaagacag aacgggggtcc cccatgcaag 120
 gcgcgcaaaa gatccaccgg tagttcttgc acacagaatg gcaccaacc cgggcgttca 180
 gaagccattt gttgttatgt gtcaccctcg gtctccaacg ttctcctacc ggcgagtc 240
 cttttcgcgc aaaactgttc ggcattccgag ctgtactcat agacggagaa tgtccactta 300
 tctagcgtca agctccacac tccgtttgag cccggcgatg aatctacgcg ttgtcccccac 360

aggtactgga agccctggtt cagaagacgc ggcgcacgat gccaacggg ctgctctttt 420
 tgcgagggcg gcatatgcat tgatgcggcc taccgtagg tttgaggggt aacgaacgtg 480
 ctcagccatt cttggtctac agttgctatg agccggtggt aattaagctg gtggcttttg 540
 acctgttcgg gttacgtgag ctccgcttca caaaagcatg gaatcgcgtc tatttcggag 600
 tgggcacacc caggaccttt cccactagag aagtccaaac gatgtaatgg tgcttcagtc 660
 agaaggacaa tcattgcgcc aatacagcat ggatgtgaag cggagttcat aaacccatgt 720
 gtcaaagcca gttagtgage ccactatcac ccccatcaac atgcattgct gaagcagact 780
 ttgtcagctc atgcatgtgc ataattttct aaaaaaccga gatagccgtg ccagtctgcy 840
 ttcgctgagc gcgacataag cttgggcgta tttttctgag gtatggaata gtgcatgggc 900
 agcagaaatt aatgccagaa cggccttaaa cgaagccgt catggccctc gcaataaagt 960
 gacaggacat gaagcggcaa tgagcattac ctataaggga aaggcatttt cagcgcccaa 1020
 tgtactgctt ggcctacctg cctgaaatcg tcaataccac ctcgaacgac cattcgtgag 1080
 tattacttgg tagtatgtc cgcagttggt ggaaatccag cggaacaaa caaacatgag 1140
 aacgaacgtg agctatatct agaggacttg atacctttaa gaataccggt gggtagaaac 1200
 tgagatgggg gagtgggtgg gtgagggata cccatagccg acagacaact gaaatcgatc 1260
 agcaccttgc gcgattcaca gcataggcag aaagaaaacc cgtacttgca agacaatatg 1320
 ttaatgctca gcattgcac atacattaat gggacaacta ataaattggc taacttggaa 1380
 cctgttggtc tcaattcacg aaacacttct acaccttcag ggtttataaa acatatttgc 1440
 cgccgcaaag tatggagaga ccaaaccctt gtcctacgaa tgaaacgcaa atgaaaaact 1500
 tccacaaaga aagggaaaaa gagacacagt gagaaagaga agaccaaata tcatacccat 1560
 tcgagtigac ctattcaagt gcacattgca ggttgatagc atagttagac ataccgcaa 1620
 ttcgttgaag actgcaagtc catgagcaaa acggcacata gtctgcttgt tgcactcgta 1680
 agtccaaat aaatgccgca ttttggaggg aaggcggcaa agttaagact gttttctgtg 1740
 tccgagtaga tcatagtctg acacagagag gcccagata gtccagtctg ctagaacaaa 1800
 ccgcccggag aagcacaggt gtcgacagcc ctggcgcgta tggtttacca tatcaactcc 1860
 agccggacat ttgaaggaag cgatggttga ggccagctgc cggtgagtga gaccgtata 1920
 gggcgccgct ggcttgggtc gaaggaggcc atgctgtttc atctggttca tcagagcatc 1980

caacatccga gaatcgcaat ctacagtga tcttgggggc cctttaagga gtacgttaag 2040
 agtgtttgtgc aaaacgtcga aatgggcgcc gatgaagcaa ttccggcgct ggttttagatc 2100
 ttcgaggaca tcaccagaaa tgggagcgcc catggaagta atctgtccag ggctctctgc 2160
 gattgcaata ctagtgtact tggcgaacat gttgtcaaag tggaggtgga gcgaaatcga 2220
 cacaaaaacc atgaggggtg gacaataggt tctgggcggg tccgagtcct tgctcgatag 2280
 ccacgcagaa acatgggagg caataagaga ggggcattcg aaaaacgtg ctatttgagt 2340
 gagctttgca atttgaagga ggtcggtaag aggcgtaatg ggggtgttgcg ggttgtgaag 2400
 gatcgtcaag aacaaccgga cgagatcggg atcgtacttg ggtagcacat aatcaagccc 2460
 acgcggcgaa cgtaacatgg tttgagcttc taagggtgga aggaccctgt tcattagagg 2520
 cgagacacgc ttcaattgat cggtgatgt gcggaatccg gctgcaggag gctgagctgg 2580
 tagagagcct tgtcctggtc caccttgctc gcctgctcca gcctcgtgat tgaggggcac 2640
 gatgatgata agtgtgccgt ctcggctaaa gaccgtcaag cggctgggac gaacagtagg 2700
 gtaagacata attgtgatca atttaaggct ggtaagatta gacagctcag tagtctaaca 2760
 gttaagaacc ggaatggttc ccaagagatc caataaaccg cttcaagaac agaccagaaa 2820
 gaggataaaa aacacaatca gaatttaaaa aaaaggggag aaggaccaa ataaaagctg 2880
 catagccgaa caattagtag tgaataagta taacaaaacc cagtgaatga aaactcctta 2940
 gggctctggc ctatctcgca cgggcagttg aactgccaat agtaaagata tctggaaatg 3000
 ctggccaatg tactcaattc cttcaaggct acctttgtct cttctgcagc acctatgagc 3060
 gtcgcggaac atacgttacg cgggccactg aagtatgtta gatctaactg aagacataaa 3120
 tgacagttgg ttatcatggc ggagcagaac gtatccaaac agaatatatg ccctgccctt 3180
 aacagttgga gcattagcac tacatatgct agtaataact tcaacgcgcg cgcgagatt 3240
 cctccatta ataatggctc gaacatgaat tggcattgcc aggacccgaa atgctgcaac 3300
 tgggtatgtc caggagggct agttgatgga ctcttagggc agttcaaagt gaaaacctac 3360
 aaatcgattg cccagaatcc cataatcatt aagtgtataa atgacctcaa ccaatctacc 3420
 agatatatat ctacgaaca gcaatcgctg tcatcattcc cattccctcc acagcaacca 3480
 tcgcagcagt cgtcatcccc gtcgttccca tccctattct gcgtcataaa gtcgagagat 3540
 gtatacggct gctgctgctc ataccactg tcgttatacc ccgagttgcc gttgtcatac 3600

cccaaactct gagtctgata cccctcggtc ctgctctcat actcatagtc agatggctct 3660
 agttcgctcg aatcttcctg ccgctcagct tcagcttgca atcgctgctc ttcccactgc 3720
 tccctttccc atgcaacccc cgctgctgca ccggccgcag ccccaagtgc cgctcctgca 3780
 acaacacctg caacagtctt atcccaatct ttctgtctt gctccacctg cgctgtgac 3840
 ttataccaca tatattgctc gtactcatac tgctctgctg catcagcatg ccggatctgt 3900
 tccatttcat ggtccattgc ggcgcggtct ctctcatact gagctgcaag ggcagcattc 3960
 tgtttctcga agtgcttctg gtgcgcagca gattgcttat caaaagccct ttgttgtgca 4020
 ttggcgtgct tgttgaatgt tttttgctgt gctgcgaatt gtttctgcat gctctttgct 4080
 atctgcgcgt tctctttctg ggcactttgg tttagcttcg cttgggactt cattgtattt 4140
 gcatgctgctg atatctgagt ggtgtgctgt ttcaactggt ggccgtgggtg gcgctgcgtt 4200
 gtttgaatgt gggagagttg tcttgcttgc gctggagccg agcggggatg agggaggtag 4260
 tgggagcgag accgtgctgg agctggagta ccatgggcca gagactgagg aggatggat 4320
 gccatctgct gtggtgcacg gggttgagca ggtctggtgt atgccggcgc tggggagtga 4380
 ggatggggat gggaaatagc ggtaggatga gagtgagagc ggccatgagg ctgggggatt 4440
 ggtttacggc ggtgtggtgc ggtcatttcg gatagagtag ccttgттаат aggcaggcag 4500
 atagggtca agatgtagct gtaagaatga ttggagtga cggagccgaa ccttgagag 4560
 gatggaccg gcgatgttct tataccctgc gtctcagat gtctgcgaa cctgattcaa 4620
 atagcaatcc tctactcatg ctaatagttc taggtaacct tactatcagg acttacaatc 4680
 cactaatccg accccaatgc acggctaaag attaagcaat atcgcccacg tttgttggcc 4740
 cagcgtgcc ctatttagga aatccacgag gctgccatgc acgcacgcc gaacggctgg 4800
 cccttggcga cgttttcctt ggctaatttt aggtgctggt ggataatgta aactatttca 4860
 agcatcagca gcaagttaat tggaccagaa ctagtctaga cttgtcccag ggacgctcgc 4920
 ttctggggct gagttcgacg ccaaaggctg aagacttcac aactccttca atgcatttga 4980
 aactgagca atagcctggc cttaggaaag atagctactt gttttgcagc ataactctaa 5040
 ttccgtgata cttgtccctt cttccgtttc gttgtgaggc tggagttcaa aatgagagct 5100
 aatagtgtag agcgtggaga tctccaagtc tgtctcgatt gttttacaag gtctcatcac 5160
 tctgaaatga tgttttgatc gaattgcgtt gccagagcct cgcacatctc ttttcggctt 5220

actgtttatt ctgagactcg tgagttaatg ggtcataaga gggctaatacc agccattgtc 5280
 tgggtgtttaa tctccaacca agggtaatgt atatgctgat cggttgcatt tgggctactt 5340
 atagtgtccg acaagaaact aaggtttatc tcttgattca agaagaacac tgacggctct 5400
 acagcgacac ttttctgccg aaattgggaa ctaaagaagt atgtgagatc ttattcaaaa 5460
 cagataaggc taggccagag aggagatatt tgtctactga gtggagatca tacgctagta 5520
 tctattctaa tcgcactatg caaaccacag taccactacc cgtatcagaa ttgacgatat 5580
 ctacgtccca tgctcatacc cactacgcgc ccgaaacctt ggccccttgt agaagaaaac 5640
 ccacggaatc ggcgccatca ccgtagctag aaatcccaga agactagtcg cccagtccac 5700
 cccagcgcg tcgtacatct gcggtacgaa cagcgggaaac gcagtggaaa gggataacct 5760
 tgtcaagctt gacgccccac ttgcagacgc cccgtattta gaccataca cgtcaagcat 5820
 gtagaagtta caggggatgt atataagcat actgccaagg aatgtcaggc tttgtgctac 5880
 aatggggggc atccagtgga tgtgcggttt cgccgtccag gcgaagagga agaggccggt 5940
 ggggaggatg agagagccaa acatggctgt gtagagcttg agctctgggg gcgatccgcc 6000
 gccctcagt tttgtatttc ggattcggag ggtaggattt agctgcacaa tccggtcgac 6060
 tgtgaagagg actagagggt cacatatgca gccggctacc atgcctagga aggagaggcc 6120
 ctgaccagaa ggggagaagc cgtagacgtc tgcaaaaacg cgcgggctgg cgacgatgaa 6180
 ggtgtagagc agggcaaaact ggaagccgca gtagaggcag atgaagccga cgaggggctc 6240
 ggtgaagagc atatggagcg ggcggacgat ggtcgagggt acgaattctt taaagagctg 6300
 cattgcagtt tggcgctgca caggcaggac accttcgcca cccagtttct ctgcgcgcct 6360
 ttgcaacagg atcggcttat atgactctct gatgaagatg gctggcggat ggacgactgc 6420
 cgccatgatg agcgggtgtcc atgccgtcca tcgccagccg cgctgctcga ccacaaatga 6480
 accgatcaag ggaccattg agcttcctat tgtcgggatt gcgtagtaga tccccagcgg 6540
 aatgactctc ctagaagggg gtgtgtagtc agtaattgtc gccgctgcca ctgagacgcc 6600
 cggtgctgcg aagacgccgg cgacgaagcg gcacactatc aacgaagcga tcccctgcga 6660
 cgccccgaca ccgagcgtga agagatccac catcggaagg gtaaggaggt aaacgaattt 6720
 gcggccgaat gtctcagaga gtggagagga gatcatcggc ccaaagcca gtcccaggga 6780
 gtatgccgaa agcgggaagc gagagaccgt cgttgacaca ttgaagtctc ttttgacctg 6840

ctcatgacca gaagaataga tggaggcatt gacagtgggt gcgaacccaa tcaagccgat 6900
gacggtcgtt gtcagagtct ttctcagcgt ggaccagttg cgcggattcc ccgggtcgtc 6960
gtcactgtcc cattcttga gtctcctctg tctttcgtct tggctgtctg cgaggtctat 7020
ttgcatcatc ttgatacttg agccaatgga ggtttccatc caagcaagtt tgcgagacag 7080
tgctggataa tagaggagtt cggctatgac tctccttagc cgagaccagg ccaacgatgc 7140
cggagatctg caaatgccac ccaattagag gcagcgttca cagctactgg acagggctag 7200
actgctcagt gagtcggtcc agcccgatca gctgtcagct ttttaaagtg cgatcggaaa 7260
cactcggctc actgtcaaga gacccaatgt gcggggaaga ccaatgtcac gcgtggggac 7320
gcaaagggct ggacaaatat ccggtcttga ctcaaccacg cctgggtaac ctaagtaata 7380
aactagatac atcagttggt tactacatgt agcagtaaac ttgctgccga cgaacagcac 7440
ttttcaggcg gagtcataca aactcacttt acacccttt cagggcactg tcagcagtta 7500
ttgttatgcc ttgtccagag gaggcgcag ccgtaatatc aatatgatgt tctctatgat 7560
aacagtactt cgagatgttc tctaggatag acataatagc tgactgctat cactaggaaa 7620
gacacatacg gaagacaagt acctgaaagg tcatgatata gatcgaaggc acctcctggt 7680
tatactggct ggctcagcca ttatcctagt acttaatcta caagagaggc aagcaggtgc 7740
gattgccatt gtcgccgag tatctgggga agcagggctc cagaggggtg gtgaaggaac 7800
ccagcactaa aggccagcgc caaccgagca aaactaccag gagatagata tcttaataat 7860
aattatattg cagccagaat tatctcgacc aaaggacggg cagtcgtgct gagcttatct 7920
ccacagaccg tgcttccttg agagtttccg acatgtaggg ctgagatcta cccgccccaa 7980
aaagagtagg cgcactatca gccctgtggg gaagactttt atataaacat cagaagcagc 8040
tagttctttt ttatgggcac ctgtatatct aaggagtcag tgctcttcgt ggtcttacct 8100
ctcgtcttct ctgcgattc atgtagagcc ttgtctccc aaccgttggg tgcgaaacac 8160
ccaccaaggc acaatggtta atagtgcaga acgacttgta attcgcgctt tcaatcttcc 8220
cggtaaggct caggagtatg ggcgtcttag tccgcacgcc ctctgtggcg cagtcactag 8280
caagcaagct tctctgactg gttgcggcct atcagccgcc ttagtactc cgttttcact 8340
agagaaccag cagggatgat agtggctgag ccagattgcc ttagtatcag gcagaataat 8400
aaacaaaggg tggcctataa atacgatcta tcagctgctg tacctatctc cttccacagc 8460

ctggccactg acacctttac tacttgctac agcacgcaag ccagccctaa attttgctag 8520
aataggtcca agccagccat catactcgct tcaatccagt ttcacagtct ctaacactac 8580
ctaattggcgt atatcgacca gccagaaaaa tccaccatgc attacgacca accgccagcc 8640
tacactgaaa caaccttgac ggcggcttca ttagtaggcc cagctctaga ccgcccctac 8700
agctcacat 8709

<210> 1911
<211> 2090
<212> DNA
<213> *Aspergillus nidulans*
<400> 1911

aagatagcga cgggaaatgg cggggggccac actattctct aggtaccgat gagcgtatag 60
tgcaacggag tatccgggca atagccagat aaacttgctg gaggagaaga ggatgcggcc 120
ccctgtccaa atggattcta gaaaaagcca gaacccgacg acgactgctt ggatatatgg 180
cggttgatct tcgagtactt gagtccgctg actctgaaaa ccgtgatcgc cgatgaagaa 240
ccagccggca gccgataaga agaagcaa at cgggggtgatc aggaaagagt aattgtttcc 300
aagatagggg atcagagcca atgcggtgca aaaagcccca gccgttctctg atacttcgta 360
gaatatatgc accaaagcat ctacctgacg tagtttctgc acattgccac caactagatc 420
ccgcgggatc acacgccgga tcaactcaac catgccgtag gcgataccgg ccacgcaata 480
cacgggaata atgccatcag tgtcgtagct gccgtagtag tggaagtcac gttcagggtg 540
gtgatctcga aaggccgacg ggaggaatcg accgcctgtg ctggcatcaa tgatgagaag 600
tagggcgctg agaaggccaa agaccagaac ggcgccggcc agaaccagcc gcgaagggaa 660
ccttcggata agcgggggca tcaggatgga cccaacacat tgacaggcct gggttcaggcc 720
accataagcc caaccggttg aaacgttttt ggggtggtgt tggtcaggta ggcgtcataa 780
tcgtagcgat tagttgcaag tgtcacgac gatccgttga acgcttcaag cccgaacttg 840
tacatcataa taccctaaat gtatatggct atgttgctgc tctccgcaga gtaaacaagc 900
gccaatcttg cttgactgca tcgtaaaagg gttccatagc cctgggcgcc ccataatcat 960
cttcacaag cgggagtaat atcgcaggag cgtgaagcgc tgctgccaga ggcttttaaa 1020
tgatgaccag tgacgaacga ccccgccgtc agagatgtag tgctcagcct gacattccga 1080

tagctgaccc gacattgctt cttccctgtg gtcatccac gggccctgcc tgactggcat 1140
 ctcggcgaga acagtcgaga accgtgagaa caaatcgaac cccaggaatc aagcacgttg 1200
 ggtgggtaat aacagggatc aggaattgag taatatctaa actttgctta gtgaagtact 1260
 agggagctct catggaagtc gtgtagaagc tcttgatgg ctggtatgca tcttgcccc 1320
 tcgtggttta tggaggaatc gaatcccgag agggaggcac gtggtggaga cctccagata 1380
 gggctagcgt tcaatcacgt gaggaactg ggtatgccg gcaatgccaa gaccaaact 1440
 atggcgcttc agcatggta tgtatccagc aaggagcaga atacaagaca gcacatttg 1500
 atttcagtc tatgatgtca gcgcttatgc accactacta cagtagggag gaaattttat 1560
 caacaagcac ggttgtttcg cgcgggatgc tgcattgctc atgctgcgga cttggctcag 1620
 ctggtcctcc gcatccttcg ccaagactca gagccgatg aaggagtatg aagtacataa 1680
 tctctgccag cgtcaactat actatgatca caataccagt tctatgacga tgacattgac 1740
 actatactag aaatcaacaa tagccaactc attcatgcat ccatccatag caaccctgt 1800
 cgcgtccgaa tatcagtata caaatatcaa ctggatgagt ttaccctta aacaccggc 1860
 gattttgaga tgacggggaa agaacacata ggcaggaagc gaaggtaatg aaaataaatt 1920
 ggaattgaga aacctcagtg aagactatta caatttgggc taagtgtcag cttggtctta 1980
 cgatatctta tcatggttct gccgttctgg gcagaacata ctagagagat caagactttg 2040
 ctgcctcagg cgcgatcacg caacgcgca aacaaccgt ctttccgctc 2090

<210> 1912
 <211> 1762
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1912

ctcactttcc agctcgatct cagctccaat cgtctcgaaa cagtatcaac accctccccg 60
 ctaaccaagc tgcgggctct gagagtttcg gacaatcgcc tgcggagtct caatgttggt 120
 ctattcccag cgtcactct tctttacgca gaccagaact gtctatccac catttttaggt 180
 cttgaccaga gtcgtgtctt agaagtattg tcagtacggg aacaggaaat tccggatggc 240
 gaatcccttg atttggaact gggattgctg aaggatatcc ggaaggtatt cttatcatca 300
 aacaaacttt caccacaaac actttcacca tccgcgctc ttctgagcct gcaacttctc 360

gatgtcgcaa cttgtagctt gaaagcgctg cctatggact tcgccacaaa gttccccaac 420
gtcagagtcc ttaacctcaa cttcaactct ctggaggagg tgaatgcatt gctcggcatg 480
aactgcctct cgcggctaac tgtgctcggc aactccatct cgcgcctcgc agatatctgt 540
caagtctca gtcggatcgg ccgtacaagc aaatcaaaca cttgcacact ccaaaaagtc 600
gacatccggc acaaccctct cacagtccga ttctatccac ctgccttaac cgggagcggc 660
aaaccacaac ccagaaaatt gatttcaaac gagggacgac gttccggcca tagtcatggt 720
ctcgacttag atctgcctct catggagcag ctcaatcgcg aaggccagct gcttcaagtg 780
aatggcgaag acggcgaaga tacagcgcac gctgaccccg aaatcgatga tccttacact 840
cttccccag cagatttggt gttggacca aagcatctag ccatttaga tcaagcaaca 900
agactcaagc gtagagtctt cgagcttatg ctttatgcag gcacaggagg agcgattaaa 960
gtccttgatg ggctggattt ccggccgggtg cttgagcctg gttcagatat gaaccaggct 1020
tgggctaggc ttgaacgact cgggtgttctc agaaagaaag cgatcacggc ttgatcattt 1080
gattcttttg attaccctt ttttttcaact tcacttctca atatcctctg cttttctgca 1140
tttcttatct aggacggggg tgaccccgat atccctcgaa cttttttttt tcttatttgc 1200
ttccgaccat gttgtgtgta ctttgagggc tggctgggat ttcttgatgc agcgttgctc 1260
ttagcgagtt actttgatcg tacctcggcg tttcgggatt gattgacatc tgtatctgcg 1320
tctctttggt gctgttggcg tcgcccgga atttgggtgc atggatgggg ttaggtaaatt 1380
agcgagcttg tccttaacat agccacttga tccgcattac tggcagcatt tgcattttca 1440
acctgacttt tactgaattc tctattgact gctcactcaa taggggtggg tgtgtaaatc 1500
gggtaaattc cttgctggag cttggttcta actagcggac tcttaagcct tcgtgagatt 1560
gggtgaaaatc caatggcaaa gtcttgtctt agaactccga ctcgaggtta ctcagttgcg 1620
tgccaaactg tgcccttacc atttccatat aagccttcca cttgtgatgg tcacccatcg 1680
tctcagcatt agggaatgct ttggacaatt cgcgtgtaat ctttagaaca cccgttgacg 1740
cctcctgcgc cttctcgatc ta 1762

<210> 1913
<211> 3558
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 1913

aaaattgtcc gaaaagcatc agaaacgggc ttacagggc tccaatccgg ctcggttgag 60
 gaatagtcga tgcctaaacc acctctgcta aggaagtctg cacgggctgg aagtaccaca 120
 tggagagcaa ttagacgctc aatcccgcctc agcacgttag tcctctcgtc cgtatcaagt 180
 ccagcagcac gaacgcagtg tagtagcctg agggcgcgct gggaacaatg agcagcaaat 240
 cccccctaag aatataaaaag tcagcaaaca cacgcataca tcaagttgag agtccgcata 300
 cattaccaga tccctctgca ccacctggc ggtacgatct ccactcccag atctccaaga 360
 gagcaggaag aacgtagaac aaatgctgca actctgtcgt cttccgagca ttggagaact 420
 gagtaatcgc gagagaagca agggtaaagt atttgcccag cgtaattgag atcggttgag 480
 gttcgccccct gagagcatgc ctgagatgag agcgagcagt ttcacaaacg ccgtcctttc 540
 cgctaaccag tgtgaccaag ctatagatgc agtcaaggag acgtgtaaaa gccaaaaagc 600
 atgagacagg cgttcttggc tgctcgtcaa cgtccatcga atcgtgctca atcccattgg 660
 ttctcttccg cttcgtgcc ttctgctag atccttact caaagtttgg ctggattcgg 720
 aatctgaagg cagtagctcg tttgtcccat ttccagatcc agatatgaca tcgtctgtta 780
 agtccgtaat cgcattggtc aggatgccga tgaacttctg gtctttaagc gtcgacgcca 840
 atgtcttcgg agaaatgagg tcaatcagct gccgaacaa aagaaaagat gcaggctcga 900
 cccgatagtt cttggcagcc ttgagcttct ttaataacca tcgtaaaacc cattcttctc 960
 tcggggccgc gtggattggg acatgagggg ctcggttgat ctccggatgg ctggcgcata 1020
 acgacaagtc gagtccaata atttggggcg cctcgttcag ctgaatgttg ggagacgccg 1080
 tacccttctc tagtcgaagg agagcctctt gcgaagggcg cggacgctgg actatcacgt 1140
 tagcacagtt agatatggtt aaaggagcat gctctgtaga acgcacctct ggtaacgaag 1200
 gcatcctgga ggaggcaccg tcaacttttc gtcttccctt ttcccgatcc taccgggggc 1260
 aaaaccacat tgccaagcag aaacatctaa cgctctccgc ccgtgttgat tgtagtctgg 1320
 actctatgca tctcccgaga aaaaaagtgg aaagactgat agcgggcagg ccgctaagcc 1380
 taatttttcc gaccgccttc ctgcttctc ggcgagcccg aagctcgaaa accgccgctc 1440
 ccgaccgact caagcctgac gtctcgtcac tactcactca atccaacat atttacctag 1500
 tatcttggtc cattcgctgt tccagcacag gttaagtgat attgtcttca aatagccttc 1560

tcaagctaact actcgggctc tagatcgctt acaatggccg actcaagcga ctcccagcct 1620
gtcgcccgcgt cgaccaagct tgtcagcgag gccttgctta acgagaaggt actaggctta 1680
ccccgtccgc gccgttgatg acgaatatga tttctccata attctatcag atgctcaact 1740
ctggcctcgc tgagaattat ctctcgcac tataacaatc atagaagcgt cggctaacat 1800
gtgccttggt aatcattagt gggatcgtgc catctcttcc atgattattc gctcttccct 1860
cggcctgtcg ttcggtgttg tcttctcagt gctctcttcc aagcggaggg catggccgc 1920
gtgggttggt ttgggtttcg gtgctggacg tgcattggag gaggctgacg gtatgttccg 1980
gcatatatgt aatgatccag tgttactaac tccataatgt agcctcttcc cgcaggggtg 2040
attccccggt gagagacgct ctgcgtaggt agacggactt tggcatgcag tctgaatttg 2100
tatgatacct gtatagctgc gcagataact gccatggcat ggTTTTTaaa gtttagaaga 2160
aattctagac ctgtatttca acattgtctt tcgcaaacca atgattcttc cttatctgct 2220
cattgggttg ctttgtcata ccttaagcac gtcaatctat ctgagaacag gggactactc 2280
attagactcg cagattattg agtggcggtg tcaagtgtac agctagtttc attttcacga 2340
accttctgtc gcccggtac gaattatgta ttttcaggca gacacaagcg caagccgtgt 2400
ggaagtcctt cgtgcgggct gtaccagtgg cttgatccac tcaaattgat aaaatctaag 2460
taaaccagca accagaaaca cgtagagaca aatgcagatg aaggacaaca gcgtactcct 2520
tgcgcttcgc tagacaaaat ctgcaacagt ttggactggg caccgacacg ctagacgcag 2580
gtaaacaaaa gtagttgagc tgtgcggata agtgaaaaat gatcgatcga gtaatacagg 2640
aggggagata gccacatatt gaaaagagga tttgaggtgg aaaagtagcg gaaggaaatg 2700
gaggctagct atgcggtggg aaatggggaa agtacacaaa cattaagcca acaaactccg 2760
aagcccgata tgcaagggtg tcatgatcat gaatcgtcca aagatatccg acgtcgagta 2820
caaaagggtg gagaaaggac ttggtagaaa ataaaccaag acaaacgcgg ttgccaagta 2880
ccagtacctg ggaaagctgc tgaattcaca gattgccgtg tgttaaagcag ccaaggcagc 2940
tacagctggg accacattgg caattaccgg cctcaccggc acaggcgcca ggcaggccaa 3000
cctgatactc ataggtgtaa taagcatcag gaacctagag gtggtctgca gtaaaggact 3060
caataccctg agcgtcatgg ccattatcca aaggagtatt accggtgccca caacaagact 3120
cgactggcac attctcagag ttagtctcga cttcagctaa cgtctggtcc atttgcggcg 3180

cgctatattg aagtacgttg gcatgagagt tctgctgate gaactcgttc ccgttcccga 3240
aggcttgcca atcctgagca atgatgcgtc ccacctcttg aatatgttgc acggtaacgt 3300
cgttatacgg atggtccggg caagccaagc aactgcattg agggccacaa ctgcagctat 3360
gggggatacc actggtgtgg tttgttaaag tgtgcttggg taaactgggg gaancaagat 3420
cggaagcctc agaatcagtc tgtgccggat gcacatgctc ctacccgatg ctggttggat 3480
ttattagttt ccctgnggtg cgggtccgga caaggcgggt tgtccccgct ggtgccgggt 3540
ctccacaaca atcgtgcc 3558

<210> 1914
<211> 1504
<212> DNA
<213> *Aspergillus nidulans*

<400> 1914
tggggggtccc ttgacaaaac gttgttaaaa gtagcatcgg cgtccaagtt ccctgtaaag 60
cggtagcttc gcaggagata accgctatat cactgctctg gagcgacagt gaattgctcg 120
gtcccacctg caccagagtg gcgggtccgat tgaaacccta cagcttatat tagtatatcc 180
tccatcacct tcacagcccc cgtaagcgga accgagtttc ccgatacgtc gcacatgttt 240
gcatgggata tgggaccact gaccctaagc cgagtctgac tgccttcaaa gctgacaggc 300
gattgcagta atggggcgac gtgcaagtcc aagccgccag ggagatccac ttgagagccc 360
tcgaacaaga atcgctctg ggagagagcg ggatcctcag ccacaggagt ttctgacgac 420
agcacggtcg agcccacagt cggaacggtg gaaagaaggg aaacaaggaa gaggagagaa 480
agagggcagg aaagaagagc gtgcgagaac gaggaggggc gagagagaaa aggacgttgt 540
gggagcccca tggagacggt gatggagtag atttgagaaa ggaatggatt tccccacggg 600
ttgcgaggct tacggagacg tcggagggta tggggaatcg cggaagatca ttaggtcacg 660
gatctcttga gtgggacaca gaagaagcaa agaaaggctc aaaaatcgag taatccacgc 720
gcttccaagg cctgcccaga ctgacgctga tatcaccatt agcagagctg gtcgatcact 780
acggtcgtgg cggtagttt catgcgatcg atgccagagc cgggtccattg gggaccggat 840
gtgcttgtgc agagcgggtc agcgtattcg tacctggtag taatccgttg aaggatcggg 900
gcgcagcaat ctggttaagaa tatggttaaga ataatttaat atgagccaga cagtcccaga 960

caaacgacga cggatgagtg gaggggaatca aatgccagga tagccgggct gacgatagtg 1020
 aggggccaga gatggatcga tggttggatt atccccgggg atccggcaga tggaggggct 1080
 ggtgacagca aatatacgcc tcaactttca actctcgaat tgacttcgaa ttgatcgaat 1140
 tgatcacatt gaaggcctgg tcgacgtctg acccaccgcg ctgggtttaa tgcacgagac 1200
 atctttatca aagaaaagag ttttcacaga gttcagaacc ggaaacgtga tgaaaacgag 1260
 catggccgga tccagagtct gacatctccg gcttacggag tectattctg gttgctctac 1320
 ctagatggtc tgtcccatcc tgccgacggg gcattecttt gtttctattt gaggctttac 1380
 tgatggcttg ggatggcctg ggcatactgc tggcttcac gattatttac tactctttat 1440
 ctgacagaca caccctagcg agtggcgcaa cggggtcgga tgctacgcgc aaataggctcg 1500
 ttag 1504

<210> 1915
 <211> 3636
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1915

cgaggtatcc cgcaatctct tccgcectct accacaaatt cagccttaca accttcagtg 60
 ttaatactag aagtcacaat ggccaaaaca atcattgtca ctggtgcctc tcgaggtacg 120
 tttaacctaca tgctttcaag cttaactcaa ttgcttgagc taacgattca ggcacggcc 180
 tcgccatcac aaaatacctc ctctccgccc cccaatcgca caacgtcgtc gtgatcgcgc 240
 ggagcgtcga gcccctccag gccctgaaga acgaatacaa ggaccaagtc gccatcttaa 300
 acggcgatat ttccgacttc tcgctcgcgga cgagagcagt cgagctcgca ctgaagagct 360
 tcggacgcat cgacgggtctg gtctgaacc atggtatctt gggacagggtg ggcaaaattg 420
 cgaccgctaa tattgaggag tggaagaagg gctatgatgt gaatttcttc agccttgtct 480
 cgttcgtgca agcgggactg ccaaagttgc gggagagcaa gggaaagatt gtgtttacaa 540
 gttccggagc cgcggtctct gcgtaccgcg gatggggact ctacgggtcc acgaaggccg 600
 caatgaatca ttgggctttg agcttgggtg aggaggagcc agatgttaca agcattttta 660
 tccggccggg catggtcgat acggaaatgc agagggaact gagggaggat catgcgccgc 720
 ccctcgagcc gcaggccat tctaagttta cgacagtga caacgaaggg aagttgctga 780

agccccgagca accagggcat gtcattggcca agttgggtgct tgatgctcct aaagaactga 840
 gcgggaagtt tcttttcgtaa gtttctgctc aaattgctac ggatagtgct aatgggagga 900
 tcaggtggaa cgatcaacaa ctgcgcgcct tccagggctg atactaaatt actgtagacg 960
 agtcagcgag actcttatta aaacaagcca tagaacaaga cagcagaata gaattgatca 1020
 gccgaaagat gaaaagcagg tacatttctt aagcattaga tgcagcgcat cttcatactt 1080
 agcatggaat gtagtttggt catcacaaaa atagaagaca gaaaaaaatg tcaatgccgt 1140
 accttttcat gctagctacg gaatggctgc tctgcttgct gatgagcaag gctgtcctaa 1200
 atgcttcaaa ttatcagcaa tgctcaagta ggtgctgagt ggcataaatc atgaaattgt 1260
 ggtatcagt gtcggtttgg cttggacagt gtacgtcacc atagaatggc ctgatagggg 1320
 cgacaacgat gttcatcatg gtaaaaaagg caagcagagt cgattaaaca taccttgtca 1380
 gttagtcaag agcataatgc tgaattgtag atattttctca aagaacatca tattgagatt 1440
 tctctgtggg agatgaagaa aaataaagcc gaaaaaaaat cgcagccgaa gataaatagc 1500
 ctgagcgggtg ggtttctgcc tcttggttaa tccgttccgc tcgtcgcac catatttcgc 1560
 gataaagagg gtccgtcagg cttacgctcg gacaaagagg caacgtaaac aggtgactcc 1620
 atactgtcac ggtataatct atcgccgctg cagaagactt gctcttgcca tccctttaga 1680
 caaataccga aatcatgtca gatagggagt tcagctgtac gtcttttcgcg tcttggcgca 1740
 acaatgatac tagctaacac ggccacagca aatgacgact tgcgcttcc taaaggtgtg 1800
 aactaccttg cgatgtttct tcgcgagcct cgggtgtgctt ctaagtcgcg gaactgtcgc 1860
 taatagtcac agcgacggtc cagaaaatca tcaccgagat ccttcccccc tcgtccggac 1920
 aatccttctc caaagacgcg cgcgaccttc tcatggaatg ttgcgttgaa ttcacacccc 1980
 taatctctc cgaagcgaac gacatcagcg aaaaagaggc caagaagacc atagcgtgtg 2040
 agcatgtgga gcgggctcta cgtgacctcg ggtttggcga ttacgtcccc gatgtccttg 2100
 cagttgcgga ggagcacaag gagcagttga aggtatgctt tctttcccca ggaatatgag 2160
 acatttgggg tgacttctaa ctgtgtctgc agtcgcggga aaagaagcag agcaagatgg 2220
 agcagagcgg gttgtcagag gaggagctgc ttcgtcagca gcaggagctg ttccgctcgg 2280
 cgacggagaa gtatcatgct gcgccggagg gtactgagtg aaggaatatg gtttattcat 2340
 gcagatcgta tacctaataa gggctcgtgc tggatcatgac ggacggagtt tataactaaa 2400

gggttatgga gttataggct tctatcatag tacacttgag ggaaatatat ttatgtcggg 2460
 ctcattaacc caaatcacca atcgtgtatg ttcccgtccc gggtttcac ttcattcaat 2520
 tcatgtagac ttcaagggtta atatttcgat atattttgct tttgggagac cccctggaga 2580
 gctccatagc agactgcacg aacaagtatt agagattttg atttcgacag cagattccat 2640
 tagcacgaag agcacagttg tatacatatg gaacaacatt ggaggttagag attaaggtca 2700
 gatacaatgt cgtttcttac ctgaaccgca ctaaccgcat ttggcgctcc gaacttcagc 2760
 gcgcaatcgc agcaaacacc gcggaacttc aagactatca ttgaaagcac agcctaccca 2820
 aactaaaaat gccacctttt aaggatgagc atatcttggg atgctcccta gatatttact 2880
 gtttttagtag gcgggagaaa tgctaattct gccagatgat tgcgccagga tcgcaagtga 2940
 ccctggcgca actcggcctc cccgagtcgt tcacacctgc tcgatggcgc ttcccagcgc 3000
 gaatgttccc gggtgaaaag aaggggcgaat tcgaaccgta caagatccgc gagaggcgac 3060
 aagaagttaa aattgccaat ggctcgaccg cccctgggga gaaggaagac gtcgacatga 3120
 aagaccagcc tccgcaagaa gaaaggaagg agaatacaga cgcgccgaag acggaaaaaa 3180
 ccgacgagac caaggcagaa aacaccaata acaccgagaa caccgagaac acgggtgaag 3240
 aaggggggtga ggatgggtgag aacggccaga tcgtagagga ggttttctac gaagaagacg 3300
 tcgcgtctga agaaggggag atctacccta tcgagaacgg acgcatcggt gactggccgt 3360
 gctttttcgc tctcttgacg catgtgtata acacgctcag cccgccattc catacgctta 3420
 tcatgcttat tgccgaaccg gcttgggtcat tacgggatcg ggagattatc actcaatttg 3480
 tgtttgagaa gttcaagacg cctgcttttt gtctgacgga ctcagcgatt accgtgctcc 3540
 tacggatagc gcgtcggcac tgcaactggt gttgatgttg ggaagaacaa ggtggacgtc 3600
 accgcggttc caggctttgt ggtcaaagaa catgga 3636

<210> 1916
 <211> 3107
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1916

cacaatgtat atgttatgac gggttatggt gtactaatgg ccattggtaa atacgcttag 60
 tgtcaataat taactgatac gatccttact acttggtcat aattgcccac ggagaagatt 120

agacttctgt acacgataga gtacaagtgg tatattttgtg caaggattga ttcgaaactg 180
 ccttgaaatc gtttcctggg ctttgacgcc ctatgagcta aacaaagttc tccgcttaac 240
 gagtctacac ttgaatccaa ctggcgccag ggtctcactt gttctttatt atttttgaga 300
 ttcgcgctgg gacaaatata gccttgatcc ataaacttga tttttcccgt atttgaaaaa 360
 ctgtatagaa cagtataaaa gtcacggact taggcctgtg agacttcgta caaattttct 420
 acatgtttta ggaactgcat acagactaat caagcacaag tcgatgcctg acagacagcc 480
 gatattctatg aaatagatct gacttaggta tatgggtctct gagaaccccc ttcgtgcgcc 540
 cggtcagcac catgtccaat gactataagg agattcacgt tttctcagcg cgccatacct 600
 tgtgtagtct atattctcgc ataaagaaat ttttgggtgtt gacaaagtct tacagaacgc 660
 acagaactct ctatagtagg aagtagatgg cttcgcggat acttgaaact ctgccaaaca 720
 cctacctacc ggcttctatc catctagcaa gcacagttgt tgattatttc cccattccga 780
 cacatctcta cgctgcatt cctcccaaaa atagttaggt gaaactcacc ctcaactgct 840
 ggctcatcag caccgaagat ctccatcaat ccgcacacaa ataaaaaaaaa gggtgttgca 900
 ggatattctt gacgccattg gtaattgact catattttatt cttgtcgagt tatagatttg 960
 aatcgaacat agtgtggata tttgcgggtct acgtccagta cggaaatact ctctaagtc 1020
 caatatccct tctctagcta taattctcag actgccgaat gcttctacgc aaattcagtt 1080
 acctcaaac caactctctc ctacacctt tgaacgagca attttttaca ctcatcccaa 1140
 cgtcatcatc tccttgtcgt acccagtaac agcctccata cccacttatc aatcctttca 1200
 aaccactccc atgccaaaaa ccctacatgc acaaaatccg caaagtccag ttcttgcacc 1260
 tcaaagtata cacttcccct tgttgtttgt tgtaacaagg caacaactgg ctcatagcct 1320
 cagccatatc cctggagggtc ctcttgtacc tcaatctcac tagacggttt catttcctcg 1380
 actgttttac caagtttcga tccccagggtc cgtacaaagt atttaccacc ccgggggtcga 1440
 ggatagcgag gatacttgac aaaaggagcg gaatgttctt ttgtatcaca gtggacatgg 1500
 cgtcattgac ctgatcgca gattgtggct ttttgcgcct gctgggaaga tggagggtcc 1560
 ggggaagact tttcaaagtt ctgggcgata gggagagaac ctatcaatgc gccatgcgga 1620
 ttccttgtct gataccagcg acggatgcat tatcacgggc agtgccgggg ggctcggttt 1680
 gctgatgccg cttggtgcgg ctggaccgcc aggaaagaga agagagtcgc gatgtatggg 1740

tacgaggtgt atgatcgtat gatcgcatgt atgggaagtg cttgtaatgt aggactggcg 1800
 gaacttgggtg ctgttcgccc atcaagatgt tgaaggctgg gggagcgcag aggcgaggtc 1860
 gaagaggtga accgctcgctg tgcttgatgt agtcattttg ataggcgatt tgaaaggcga 1920
 gatcttgggtc agaatggtag gacagattaa aattcttgaa atccgtttcc agcgggcgaa 1980
 ccaagcgtg ccgccgaaca ttcttatgta gtgtagcatg gtctgacctg gctattcatt 2040
 tataaccctg aaaaattcgt cgtattatcc atcatataat agctccaagt acgcgcttaa 2100
 gattctatca atggacaaat ctccgccgtg gttagtagat cggatagtct attctcccgt 2160
 taatacaaca gctcttcacc cagaagggtca accaacttcc ttcttaatta aacacaagcc 2220
 ttatagctgc tatcaccttg cttgtactca tcaaagtgtc tggtgcatat tgagcgccag 2280
 cactcgggtcc actcgttcac cttttgagtc tttccctggg ccattctttt ggcaggagtg 2340
 cacgtttgat atatgggttaa atacattcat gttcaacata tccatactag tctcgggtcgt 2400
 atctcataag gacaagttag gcttcctaag aatatgaacg ctggaacttt atgataattc 2460
 acgcttcgcy gccgtcccca agaggcttct agcaggcagc tctgtgaccg tccgctcatg 2520
 gcagtcaata gcctcatcca cttgtaattg ggtaaagttt gccattact cggaagataa 2580
 gtagtttctt tcaccgctgc aacgggatta ggtattatcc ctaaagacaa cataatcgac 2640
 agattcgcaa tgaagctaga acctaaagacc atgtatcact acatgaggaa ccatttttat 2700
 aatacatttc aatgtaatag aatttttcca actgtactgg cggttctatt ggtgctaagc 2760
 tcgcggttct gaacttgagt gtatgtcgta gctgcaaggt gcctgcgctt ggactaccct 2820
 gcaggggaaca gaatcaattc tatgagtgtt gattcgtatg catataccta tatttgcgaa 2880
 atataccta actcaattcc ccattctttt gcaattgtaa ttagtccttc gtttgtccgt 2940
 gtctgtgcc tgcgccatgg ggcgggtcca agattgttaa gaagccaaga ggttctttat 3000
 atatttatca acgcgttcca gcccaaaccg ctggttctgc cgcaacaaac tgaacaagtt 3060
 ataaaaagcc atataatagc ctacaattta cctctagaga taaccaa 3107

<210> 1917
 <211> 2529
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1917

aaggcatatg tgcggcaggc cttatagtta tacgtcgtaa cgatcactag gccacctgag 60
tctctggaca agtcaacccg aaggatagga cttagctctc ttccgacctgt gccgcaggat 120
cgagcatctg cgccatctcc ggccacgcct gataaaagat tggtcgatgc ccccggaag 180
tcagcaaggg ctttttttgt aagtaaaaaa tccagggttt cccgagctag gaccgtcagg 240
atctaaatgg gtagacttca gaaggctgtg caattcgggtt cccacataat tttcattcgc 300
cttcacagaa ggctaaggcc attcatagag aagtgagtat tgggtccgac ttggcctgct 360
at ttgccatg atgcgcagac atatgtggcg caaataacct gtcgaggagg agataccct 420
ccgagggctg cgtgtcgaat tgtctgactc tcgagatgat tccttccggt ctctggcaat 480
acaaagaccg agagaagcag ggatatcttg gggttgtagt gaagaataga ttgaacccaa 540
ctggggagggt catgaagcct gactcagtcg catccaagtc gggttagccc tagacattgg 600
acctagatca ttcaatatcc ttttatcgcg tccgacctca ttactgcggt caaacccagc 660
ctatttatcg actcgcttg gtctcatttg ccggatgcgg cttactttg gagggaatga 720
gggattgtcc tatgctgaaa cggtctctcg gcagtagttc tgagcgaaat aagtctggca 780
tctctttgac gccaccacct ctgcacgtca atggccagta tccctgtgac attgagagtg 840
at ttctgtag aagctgcaag gatcagtaat gtatggccac gacgctaaac atggatttgc 900
ctccccgtga agagcctaac caaaaggatg gagtgtgtcc gccattccca cgcagttttt 960
gtgtcgatag cgtatcggtga agacattccc gaatcctcaa at ttcttagt ttgcagtcga 1020
ggcttgcatg ggcggacaga agcatgggtg agctgcgcgg acgacgcgtt cctgacatcg 1080
acaatcgagc atgatccatc cctgagtatg aggcgaggaa ggctgccccat tccccgcaat 1140
cccagggatt gacgtttctc agacggccct tacttattct atcacatccc cactatatgg 1200
actctcacga tgcggagtcc cacttgttta acatctcttt taatctgtgt tgtttgtcca 1260
caagaacacc tgccgttaca atggcgactc ccggcctcga tggtatcatg agctggacgc 1320
caaactatga ccatcctcat gagccccctg atgccgtcat atacggtgtc aacatcccac 1380
tgatggttct aatgaccata ttcgttgcgg gcaggtttct atcgcggaaca ttccttgtgc 1440
gcaacgcgct tggagtagat gactggatga tgcttgttgc ctatgttggg gccagtgtcg 1500
gctttggacg tacatcgtga gctaactctt gctaaagata ctggcaatgg gtctgtcggc 1560
gtgtcagcta gtcgagccca ggtatggtat tggccgccac ttgtatgacg tgagatatga 1620

ttggtaccct gcactgggga aaaaaaggct ctagagcccc agtgaacaat tcaggtatta 1680
 accactgtga agttgacaat cgcaatccaa gcactgtttg cgccttggtc tgcaataacg 1740
 aagatatcga tatgtttgac ataccttcgc cttttcccg tcaaagacaaa cagatgggtc 1800
 aactatattt cgatgggtcat tctggcggga tttggaattt caacgaccgc aactatgctt 1860
 ttgcaatgca tgtgggtagt gcttgccatg ccgtgacacc gtacgctgac gcaagcagac 1920
 cgttgctcga tctctgggca gtcttcaagc cgatgtcgca gaaacaatgc atcgaatcag 1980
 aaaaatttta cattgctggt gctgccatca acagtataac cgatttcatt gtttaccttt 2040
 ggccgattca ctacctctgg aaagtaaaac ttagcttggc gaagagagca ggtctaata 2100
 tctgtttcgg cgctggcgct ctgtaagaaa gagacgactc ttcccaatcc attgatactg 2160
 ctaattccaa tcaaggattt gtattgcggg tgtgggtcgc attacctggc aggtcaagtt 2220
 cgccaattcg tgggacccaa catgtgagtt ctcttcggca atgagcctca tttgtgcact 2280
 tattgatgta actgtctaga caacggagcc atcatctttg ttattgtagc ggtggagtgc 2340
 aatcttggtg tcgtctgcgg gtgtcttcca ggggtcaggc cgctgatgac caagatcttc 2400
 ccaagtttga ccagctcaac ttacaactcg ggtcgaggca agaacagtca cgttcaggtc 2460
 agctttaaca atagaccggg ggggggatac cagcactgc attcgattca cgttagggaa 2520
 gaagtggac 2529

<210> 1918
 <211> 2503
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1918

acgttgcaat atcttcccta cagctgccac atttccacgt tctctctttc gttcagacgc 60
 agctgctgcc atatctttgg atgcattctg cgcagcggat gccttcgccg cttgcctcga 120
 tgccacattt gcagcctggt tgcttgccgc tttcacagcc tccttcgtgg atttgctcgt 180
 tcttgacttc ttctccgtct tctcagcgtt agccggcgag acttccttgt caggctcgtt 240
 gagaagcttt ttcgattgaa ccttttcgga tttagcttct ctctctgac tctgtcttga 300
 tgatttgctc gcggcttctt tagctttggg tgcttttttc tccttgatat actgtactag 360

nggcgtggat ggtactgtct actttttgac ttctccctcg gcagaagttt tcgcgaggggt 420
 aggtttttgta atggggtgag tgagactctt gagaaaatgg ataaattctg ggtcctggtc 480
 aatggttccc aatcgagcat ctttgcgaa acgacttcca ggtatttttg cgtacgggtgc 540
 aaactccaga tttggtgggc ctaggagtag cgggtcgttc gcggtgttac gggcatccaa 600
 gaatgatgtg ctctcacct tatcggagag aggggcaatg tgttcgcttg aaacgacgta 660
 gaggtatgct cggaaggcc gggaggggtt agcaggactg tggttcccat gactgttagc 720
 tacaacattt atggattaga aagtaggaac tcaactcttc gagacctttc caggcttata 780
 ctgagcccag ctcaactctgc ccgctccaag ttccattcc gcgcccagcg cagtttcaaa 840
 ctctctctga gttaggcctg gaggtaaacg ccgcacgagc agcttcagcc gcggggctac 900
 tggtttcgga gccttcttag gtgctgggtgc attcttttga gtcgcagacg caggaatttg 960
 aaggacgccg ccgcttgatt tggacaggat ctgagtcatg acggtttaga atcaaattgt 1020
 actttgacct aaactccgat gggagcggtt aatccaagca gccgcagagg tcggctacgg 1080
 aggtatcgcc agaaaagcac ttctcaggc tagaagtaga ggatggcact agggcacaaa 1140
 gtagcaaac tgagcccttc agatgacct cgattggaaa aggtgcgctg ctgaaactcc 1200
 ccgctgacca gacgacactg cttaaaggat ccacgcagt gactgcaat cggcgataac 1260
 cagcagggct ctgcggggaa gggagagagc acgtttatgt gtgcatcggc tatgctgcca 1320
 atttgagctt gattttgcct ctccaacctc gtcgtccctt gtacaaattt tcaactttctc 1380
 tgattcctat catttttgcc atgactgata gcaagggtccc tcagccgggc ccagcgaagc 1440
 tcaagcgcaa tgcaggaccg gacgagtggg tagaggcagc caaggactgc aaatacctct 1500
 cggagtca ca tatgaagcag ttatgtgaga ttgtgaaaga gtatatgatg gaaggtgcgt 1560
 tctgcgcgag ctagctgaaa ctattttcag atgctgagat ctgtgcgtct gcctagagtc 1620
 caatattcag ccagtatcga cccccgtcac cgtctgcgga gatattcacg gacaattcta 1680
 cgacctctta gaactatttc gcgctcccg tggatgcca gacgcgtcgc tagctgaacc 1740
 tccgaagact tcttctgctg tgattacatc ggacgacatt gaaccgcca ccacgataac 1800
 agatccagag ttgagaaaga agttggggaa gccagggaca gcaggagatg atgatgatga 1860
 cgatgatgat aataatgaga atgctgggtc aaaagaaaag tcttcgagtt cagggacttc 1920
 ggaaatagct gtcaaccgca acttcgtgtt cctcggcgac tatgtggata gaggatattt 1980

cagtctggag accctgacat tattattgtg ttgaaagcg aagttcgtca tccagactgt 2040
 ttttgatatg ggtgtagctg actattgaag gtatcctgac cgggtgacgc tcgttcgtgg 2100
 caatcacgag tctcggcaga tcacacaggt atatggtttt tacgaggagt gtttgcagaa 2160
 gtatggaaat gcttccgtct ggaaggcctg ctgtcaagtg tttgatttta tgaccctggg 2220
 tgctattatt gatggtcggg tectgtgcgt ccatggagga ctaagtccag aaattaggac 2280
 cctggatcaa gttcgagtcg tcgccagagc tcaagagatt cctcacgaag gtgcattctg 2340
 tgacttggtc tggtcagatc cagacgatgt cgagacatgg gcagtcagcc ctcgaggagc 2400
 cggtaaagcca gcaagtatgt gcaaactgtc tccagtactg atactcctta ggttggctat 2460
 ttggtgacat ggtgccgacg agttctgcat gtaacatttg acc 2503

<210> 1919
 <211> 3258
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1919

ctgaatagaa ggagaccaca aaaatgaaga acaacatata taggggttta aagggttatt 60
 ggggtttggt aagttttaag gcaagaaaac tttgggctta ttaaaataaa ggatatttag 120
 ataaaaatta gattcccatg gcttghtaaca aaagcacagc attgtagtgg gcaatttata 180
 attaagggcc ctacatagac gtaaagaaac agattggtaa tgtgaacgaa acgaccgctc 240
 tggctttcag gaaatgaaag attgttggtc atgaagcaaa ctcaagagat atgtggtaag 300
 tccaaaaagt accgcgattc cagagcttgt cgcacgaag cggtttcctc cagttttcca 360
 caccgcaat cactgtaggc gtcacgcagt gactttggcc agcatttgga atccatttcc 420
 aatattcatt tactgatgat gtgtttttct gcttttaact tgcttccctc tatctctcct 480
 ctctcgcgtt tgcagagcaa aggcgttgtg cccctcatca taactgaata tacgcacctc 540
 atgggtctga aatgtcaatg tgaggttttc atggaattgg tgtgtatctc aagaacgcat 600
 ggaatcacac gggataggtc ttgaggacta tggcgttttc tcgaggtcga cttaacagac 660
 caggtggtgt tctctctctt tgctctctac cctgaaatat acccgggcgt ttttaciaaac 720
 caccattat tcattacgtc ctcatgttca tgtactgttg cattgttttc tatcctatct 780
 ctggcattca accatgattc ttcgtttact tgtaaacatt tggttataga tgtaactctgt 840

aactctgctt ctagttttat cgtatcaagc ataacgacca gttgtcctag atctcctggg 900
tatcaacctt agcaagccct gtagatgtag ccaagtttta actgggtcac gtgaactcca 960
cgagctaata gtagccctag gaaggtagca gcggcacctt gcatcaggca acgcccttaa 1020
tttgattacc gaacatctat ggagtattac cccgaggtca tagccacata cgacgttgat 1080
taaaaagcgc atgctcgtt catcggtttt aattttccaa tcgttattgg aggacgacca 1140
atcatctgcc ttaggcgtag gtagttgaag cccttcgcac ccaacgaagc ttccgtgccc 1200
tgacttcgcg aagtcaagac gataatagcc tagtctacct cgaatgaatg agggagattc 1260
atcccagttc ttcattgatt gagtatcgtg ctgtttcatg gcctgttttc acgccgccct 1320
gagtcataga gcaagcgtcc gtgctaacgt ggtacgatat aagccgcact gattcgtcct 1380
cagaggtcat caactacgtg gcgcctactt ggaaacctag atgaactgaa tgggaggggtg 1440
ggaaaagatg tcgctttgta ggcttttcta gccgtgtgcg cccggaagac gtttataggg 1500
aggataggac cgagggagtc agcctggata ggcgagatac ctatcaagga atcagccagc 1560
tactgatcca tccaacccat gtctgtgact tgccgatgac tcacatttag gccggcgcg 1620
gcagcatggc ttaggtatgt gactagctgg gtcgcccgcac tagtgaggtc aactagagat 1680
gttggccagg gttttatcac agagcgtgaa ggggtgctgt agaggcagtg agacttatct 1740
tccattatgt caccaatttt ttactactag taggtaacaa ctctgaccg tgtataacctg 1800
aaggtcatgt ggcattaatt agggctgtac aaatgttggc ctgggtttgt aggcaggaga 1860
cataatgatg cctgagggtta cggcagtata tagaccaaga tcgagttaac aacctcgatg 1920
gataacataa tacttcaggg cggcctaggg aacgtatgca cccgacctat gggcacgacc 1980
acggctgtag ggctcattg attttatatc ctatgatatg acagcttggt gggagtgttc 2040
tgttctacgt aggccagcag atgtcttata ctgggtactt ttgaagtctt aaacatgtaa 2100
cagccgtaca attgatttga aaaagggcca atgtatcgtc agatcgaggt cgggtcgagt 2160
tggtgcccc tgggcgagaa gatcttgcaa tatgcagctc tcccgatgtg tatggcctat 2220
caccatttag caaatttcat tcctcatcac taccatgact atcaccacta tcatcactat 2280
cattactaaa gagatccgtc actaaaaagg ttcatttgcc acggggatac tgaatttgag 2340
ttgtatgtgc tagcagttat gcttgatagt tatgctaggc atgcttatat aacgtgtatt 2400
cataactcca cactccacac acaccgagtt ggccagttca cgtccaacgc ctccgtatta 2460

gactccgac ttcctattac ttaacactta aatcccaatt catgacaggc gccaaacatt 2520
 gagctgcgca atctgtacat tctctgacca ctctatcttt cagatccggc caggattaga 2580
 aatatgtccc gcaacgcccc agtcgaagaa gtctacgact cggacccaga agaagttgct 2640
 ctttctctgg tcccaagcca cgccaaaaat gactccattc tctctggcgc ctcaatttct 2700
 acgtcgtcga tgcccattaa acccgtgcct tgaacctaag cgagaaattc caaaaatcca 2760
 ccaatgtctg gatcctgtgt acctttgacc agacgccaac cccctcatat ggcccaaaag 2820
 tttggacaaa cttggcaggg ataatccttt gggagggcat ttgtgatgct gtgcataatc 2880
 cttggatcgc atgtggtctt agacctataa tttccctccc ggactggcca atcccggcga 2940
 gttctgtgca ttttaaggta tgatcgttac cgttatttta caaaatataa ctggcttctt 3000
 tttgctccct catcccatg gtttacataa gtccctccta ttgttccct gagccctttt 3060
 tttctcttgc atcaattatc ctacatcta actcttcaat cttttttctc ctttcgaacc 3120
 cctgtcccc tctcttgga ttttttctc tcactccctc tcttgggtgt cattacactt 3180
 ttcaatcact tattactcct tctacgacg ttttaccttt ctctcatat ctctactcct 3240
 tcttcctact tctattac 3258

<210> 1920
 <211> 1763
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1920

gggcgcgta aaaccgcag cgcgggctac acaaacgagc aaaaagaaga ctgctaccac 60
 agcgagcacc acgaaaattc tcgaggacgt gctgcggtca ccactaaaac taccgtgaaa 120
 tcaacggcga cgcgcaaact taccaaagcg gacgaagtcg gcgccacaaa gaagacagcc 180
 gcgccagcta aaaagcgcag agctgatgct gaagatgctg agactagtcg ctccaccaag 240
 cgggctcgcg ttgtaaagcc tgctgctgca aagccgaggc caaaagttgt catcaacaat 300
 gcgccaaccg caaagctgaa cgtctatgtt tgtggtgaag gtagctctgg tgagcttggt 360
 ctgggctcgc gaaagaacgt cattgatgtg aagcgaccac gtctcaacc gcacctgctg 420
 ccagatgatg ttggtgtcgt gcaggttgct gttggcgga tgcattgcgt cgctcttacg 480
 catgacaata aggttcttac ctggggtgtc aatgaccaag gtgccctcgg gagagatacg 540

acatgggagg gtggatacaa agacatggac aaccgcgact cggactcgga ctcggaactcg 600
 gactcggatg acaatcctga tctgaaccct catgagtga ccccaactgc cattccttcc 660
 agcgcttttc ctcatggcac cgttattgtc gaagtagctg ctggtgacag ctcaagtttc 720
 gccctcactg acgagggcca agtttatggc tggggaacat ttagagtacg tcatgttctc 780
 gcgagtattg aagacactgt taactttccc ttagagcaac gatggtattc tcggattcga 840
 cgccaagaca aaggttcaaa ctactccgaa gttattgccg gaccttaaaa aaataaagca 900
 cctgggatgc ggagataacc atgtcctcgc tctcaacgac aaaggtgctg ttctgtcgtg 960
 gggctcgggc cagcaaaaacc aactaggtcg ccgtatcatc gagcgaaaca aactgaacgg 1020
 gcttcagcca cggaatttg gtcttcccaa aggtatcggt catattggtg ctggcgcttt 1080
 ccactccttt gccgtacacc agtccggcaa ggttttcgcc tggggcttga acagcttttg 1140
 agagacggga attcgtgaaa atgcgggcca tagtgaggct gccatcgcc accccaccgt 1200
 ggtggactct ttgtcaaaga agaacgtcac gcaaactcgc ggtggtgcac accactccat 1260
 agctgccacc caggatggcg aatgtctagt ctggggtcga ctagatggat atcaaacagg 1320
 cttaaaaatt gatactctcc cagacgatgc ggtcatcaag gacgagcgtg accgtcctcg 1380
 tatectcatc gagcctacgg ctgtccccgg gataaaagcc aaggctgttg cggcgggttc 1440
 cgatcactca attgcaattg atactagcgg ccgtccctgg tcttggggct tctctgtac 1500
 ttatcaaacc ggccaaggca cacaagatga tgtggaggtc gcaactgtca ttgagaatac 1560
 agccgttcgg ggcaaaagtc tcaattgggc tgggtgggtg ggtcagttct cagtctttac 1620
 cgaaccagtt gagttgtgaa ccacttagag gtagttttga gagttgcttc gtaaagattg 1680
 tgggctatct gtctcaagga tggccttggg atatcgggct gatcttctaa aatgtgttta 1740
 caggacattg ggtatgctgt ttt 1763

<210> 1921
 <211> 3558
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1921

cgtctaagat caagcctttc cgcgggaata caatgtatcc tagccctccg catctaaagc 60
 tgagtatcag gtaggccaga tgccatgggc cgaattctcg cttggtcaat tggagaagta 120

gcgacgtctt cgtgacgctc gttaacaggc tatggttgta ttggtgtttt cgggctggca 180
 gtacaatatg gctgcctggt agccttagcg gcgataggcc gtcttctagg ctgcaacgga 240
 acggtgggga acggcggtcc cctcaacaga ataggccatg ttatcgtgga cggcgttgac 300
 tggatgagta ggccaaggtc agctcagtaa aaacaaaaaa ataaggaaaa ataaaaggga 360
 atttacttta atcatatttg acgactctag ccagattcag tcattgtagt gaccatagaa 420
 cctagcctat ccaactctag gtacgcacag caagtatcta ctctctcttc catttaagag 480
 accccgacat ctctgccag aagctcaccg atgggtcaac cacactgagc tctctctcgt 540
 acagatcaat ctcaggcgcc tcccagatca gatctgtctc aagcgggtgtg acaaactctgg 600
 tccgtttcac caatttccag cccagaaaca ggaccggcgc aagaaggacc atcgtgtagt 660
 tggatgaaga ggtctctaca ctccaggggg tgaaactctc gtagccgaaa cagcagacca 720
 cggtaaacad ccacgcaaag ccgaggtagc cgcagtagcg ctggaaccaa ccagtgtgag 780
 ggagcgtgga gcggtcgaat ccttggggcaa cagtcgcacg gtagaagaag atgtacgtaa 840
 gggatgatgat gacgtagttg ataagaccgg cagccgtgat gatgtttgtg agccaggtga 900
 ggaccgtgga ggaactgtcg cccatttggg ggaaggacaa aaacgggaag atcattacaa 960
 caaggaagca gtagataggg acgccctgct tggtagactt gcggaggatg cgtggggctc 1020
 ggcttcttag ggctagggaa tgcaggatac gggtcgctgt ataggtgtag gtgtttccgg 1080
 cgctgaaaat ggaggtgatc aggagggcgt tgacgacatg cggtaggcct tcgatagaca 1140
 tgtttttcat ggctattaca tagggcgagg cggcgggcgt gccggagcct tcaccgtcac 1200
 cgaaatggat ggcgcgtagg gtgggatccg cataggagac gacaataccg cagcaaaggg 1260
 ccgagcctat gaagaacaca atgaatcgga aatacacggt ctggaaggcc gctctaattg 1320
 atctgcgagg gtgtttggcc tccgctgcca ccatggagat atactcgggt ccgacgcagg 1380
 caaaccggc agaccagagg caggcgagga aaccctcaa acgaccaagg ttaccgtggc 1440
 tgaggtattc ggccaatgcg cggggcttgt tccagttcct aaaccgtat acgtcgtgct 1500
 gcgggttccc gccgaccatg gtgacgaacg taaacgcgaa gagcatgagg atgaggatca 1560
 cttttccgcc ggagagccag aactcggctt ctccgtatgc ccggacggcg aggatattca 1620
 aaagcctagc cggtcagtct ttcgtgaggg actaccgcag ggaccgtgca aacgtaccca 1680
 tagattataa cacatgctaa acaaatactc cacacgggaa tatcgtccct ccagtaggtc 1740

aagaccacat tgatggccgt aatctcgaac gggatcagca ggcctcgtca caagaagaag 1800
ttccagccag ccatgaaacc ccaggcatca tcgaccatt tacgggcaa gcggataaac 1860
cctccctcga ccggctggta tacggacatc tccgtcaggc agttattgac catcgccaga 1920
aaacagcagt ggatgaacca agagatcaga agagatcctg aaccgccctt ggccaggccg 1980
ccgccgatag agacgaaggt cgccgtaccg attgagcctc caatggcgat taattggatc 2040
tggcggtttc ccagtcgacg ctgcaggcca gagcccgttg cgaggatggg ctcagcccg 2100
acttctgagc catcgttagt gttactcttt tcgaggctctg gttttggatt catcgtgaca 2160
gtcttgagag gcgtgaaaag caagaaaaaa aaagggccaa aaaaaaaaag agaagagcga 2220
gggaggggtt atttaaaaga gacggtgcta taggttacat cttctgggca tgaaattatt 2280
gtcccgtctt gaggatgggc tgggatagga cgaggactgc gctgaccaga gattcacttc 2340
tccgtcctgg gcgagcacca ctaggagcag aatgatgggc tgggggcttg ccgcaatggg 2400
gataagcggg ggactggcgc cgtttggcat gactggggca ctcgccagga acaaatggga 2460
ggccccatc tgcttgtggc ttagcgcgcc tcgtggcgcg cagcttggcg tccatgccat 2520
gatcttacag aggatgcaac gcatcttgaa attctgcgct aaagcagccg agcgggtgcc 2580
gatcggcctc ctattactcg tcaatacggg accggtaccg agtaccggtg gcactactga 2640
ttgaaaaggt aaaatttccc aggacgaccg gttaccacca ggatactgga cacgcatgcc 2700
cctttcgtgc ttcttatcaa ctggaacagt atgctaaacc ccataagcga gtgagtttgc 2760
gagtaagcaa gtccgcgagt ctatcagcgt tatctcgcag acggattttc gttgcaaac 2820
ctagctttct tatcgctcct cgcagctcag aaatcgcgca aatcgcgcat tgaatgcagc 2880
ctcgtattca gttcgcatgg tagcatctct tttttgcttc ttcatttttt ttctcttttt 2940
acttttcttt ttcgttttcc ctcttggtta ttttaattat ttcgcacttt tgtcccagac 3000
ttgtgttagc tgcgcgaagc caccgaagcc acagatgacg tcggtggctc ggcgcccgct 3060
ttcccgtcac gagattcgat caacgctgct ctcgtgttag gggaccctag ggctgtcag 3120
ccgcgcaaga cgaacaggat catgaacgat gcattagatg cgaaccgacg gctctccacc 3180
cttgacagac caatatctcc gcccctaacc cgtccctca ctcgtacggg caacgactcg 3240
ctgtccgccc tcgaagcggg gaaagaggag gtcgacgacc ccttgagcg aatctccgca 3300
cacctccaca aattcacccc agaccgagcc gctacgctc ccgtggccgg cggatcgtgc 3360

ctgatcccat tcgatgcctg gaaatcgctc tacacacgaa actgtcatgc atcaggaacc 3420
 attttgtcat tcacaacacg accattcatt gncggcccgga ctatgacttc gctacagatg 3480
 ncgcattcag ttcgtcagct gagtggcatg tatgattgcc cgggcccgat agtcgcgctg 3540
 atcgaatgcg accgaaca 3558

<210> 1922
 <211> 5150
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1922

aaccggcgaa ctcatctcaa agacacgggg ttaaagcggg tatatagggt ttgcagcttc 60
 tcacgaatgc attaattgga gacgtccgcc tggcgcaaaa ggaccaaacc agaaaatcat 120
 ttacctggga tcgtacgaa atcagcagtc tgaaggcacc gcgtccatat ttttgtgccg 180
 tgggggtctgg gcctcgttga tcggcagtac aaaggaggag aacgggtata tataccatct 240
 actcgacaag aagtggaatg gccgcaggag tgctgttttc aagcgtatgc ggaagggtga 300
 taaacgtaag tagctgaacc ccgtaccaca tactcttggg ctgacgcttc gaaggctctt 360
 gtcaccagtt gtcgcgatg tcatgagcgt catttgacaa tatataatat tgccatgccg 420
 cactcagatt gccgagtcac acggctgacg gaccctataa cgggcatcaa tcggctccgt 480
 cacaatccaa ttaggctgat agattatttg ataataaatt gcgaaaatca tcgacgaaat 540
 cattcgctat gttctctctc tgccctgaat gtatccgacc agtgatttcc cagacaacag 600
 ccgcagccga tatatcacca cctacgagca ttcaagaaaa gggcaaacac tcttattcga 660
 gtccgatata gtagcatgca gagctctaag aagtgcgaaa gccagataag tgctatcccc 720
 ggtctccgac gccggcgccg aacccgagtc cgggcccgcg gacatcgagg ccctgggacg 780
 gcaatagtgc ccgaataaac cccgaccaga tcaccagggt ccagcattct acatatacat 840
 aagcacgcag ctcccttctc cactgaaatt cattctattt cgctaagtaa cttgaaacag 900
 caatagcgaa atggtctccg aaacactcga attctacaca aaagccctgg gcgctatgtc 960
 gtccctgggc atcgcccgcg ccagccaaaa actccagtct ataccacacc acttcacata 1020
 ccaaacgacc cctaatacca aaaatgtcgt cattattggc ggctcatatg ccgggactcg 1080
 acttgctcag cgtctcacag aaaccttacc gacggggtac cgcgcggtgc tcattgaacg 1140

aaactccac ttcaaccact tctttgtgtt tccgcgattc agtgtagtca aggggaaaga 1200
ggagaaggct ttcattcctt atgataatct ggcgaagtcc gcgccggcgg gaattttcga 1260
gcatatccgg gacaccgcga cagaaatcac accgaaaact gtgaagcttt catcgggtgt 1320
cgaggtcgag tacgagtacc tcacctcgc gacgggggtca tggcagccgg cgccgagtaa 1380
atacgatgtt ttgacgaaga ctgaaggcgt caacgcgttc cgcgcgacgc agagggctgt 1440
agaagctgcg aataccattg ccgttggttg cgggtgggccc gtgggcgtgc aaattgcgac 1500
tgatatcaag agctattacc cggcgaagga gataaactg gttcactcaa gagagaaggt 1560
gcttagtgcg ttcggaccga ggctgcaagg ggctgttatg gatgcgctga ggaagatggg 1620
gggtgggaatg gtgatggggg agaggccggt tatcaagaaa gatgcaccag acggagccgg 1680
ggctggtatg gtcggaccgg gaagtcttac attcaaggat ggaacgcaaa agtcgtacga 1740
tcttgtggtg agtatgcgcc ttgccccttg ttatatacgt tagactgata tgtatagctc 1800
ccctgcaccg gccagcggcc caactcgagc atcctcgccc atctcgacc aggagcaatc 1860
gacccgcaaa cgcggcagat tctcgtgcac ccaacgctcc aaatcaatga tggctctaca 1920
tccagctccg ataaagaggt caccatctct gagcggattt tctccctcgg cgatgtcgct 1980
aaaacaggcg gcccgcgctt cgcccgtgcc gctcgcgcac aggctgagat tgtcacctcc 2040
aatatcctgc acttgatcag ggggcaaaag gacaagctga gcgagtacca tccggcaatg 2100
tacgaggggg cgattaagct aaccctgggg aaggtaggcg tggcacataa gccagcact 2160
tgttccggat ggattccagt atgctaattg ttgatttcgc agtccgacta ccttttctgc 2220
gggagaatgc ctgacggtcg ggagattgtg aagtttgga agacgcagcc gcagaatgag 2280
aatctcgagg tgcagtcggc ctgggaggaa ctaggggctc gggaggactc tgcagaaacg 2340
gggttagctg ctaggacaga gaagttagag aagcacaagg agaagttcag tgcgtgctgg 2400
gggcaagggt ggggacaggg ctgggagaag aatcgcgacc agcagctgcc gtggcagagg 2460
agggatgcat agatgactgt catcaagggt ggttgaccat gtccattaac cgatgaatat 2520
cattcacctt ccgtatttag agttctgagc acgagttcca gccgtactgg cctcgtttca 2580
agtatatcga cccgatgac gagtcttttg aatgattttg ccggaatatg gcgagtataa 2640
ttcatagcag tataaaggag ttaaatgcag aaagtctgta ttcgttatat ttgtcacctg 2700
gcagcagatt ggatcccggg atatacaaaa agaattgata ttgatattatt tactactgtc 2760

cttgtaagac cgggtcaatg gagaccagtt taaacctagt accctatgtg tagcccaatc 2820
 tttatgacgt acaatctaga ctatgttgcc tttatatcga ttgttaagaa cattcattta 2880
 cattgagaag ccgtcccatg ctcagtcaca gaacttgagg tatcattggc gtagtgactc 2940
 attgctacgg gtacaaagcc ctaaccgtcg atataccgat acccaatgcc aatctatata 3000
 tgacaaagtc caccattcta tggccccgatc tccggcatta taggcgttaa gcttagttac 3060
 ttctggcagg atgttaaggt attcctttgt atcaattcga cctattattc cactgcttca 3120
 aggctcctag ctgaacggta acctcacatc attgagcttg ggccagatct gccggagcga 3180
 tgactatccc gagttacgag ggctgaacac gaacataaat aacttctgtg agttgtgcaa 3240
 ctacaagtac attgggaggc acataggata ctttggtcac taaggacagt caatgtggaa 3300
 atagtggctc cgtgccaaac ctacagctgc agagaagga gcacttacga gagtcgcgcc 3360
 accactacag ctattatac ctgcgaatca caacgccaaa atgccctgtt ggcagctagg 3420
 gccacatcaa cgatttcgac tgcgttgaca aagtcgatgc cggccatgag cttgtgttgt 3480
 aagcacatct ttttgccagg gaggcaagct tgaacggagt tttgatcgta tatataacca 3540
 ctaggcttga tgggaagga gattgatgca agatactacc agtatggcag gatcagtgca 3600
 gttatatgca tacccttgct taggtctcta ggggtgccat gtcagcagca gattctcggt 3660
 aaggctcgcc ctgctgttta tcttccaca tgctcagagt agttccaata aggettagta 3720
 tacgcactca aacgatcatc cgcattacac aagagccatt ggcgaaacag tcttctcaa 3780
 gcaaagatgt accccaggac aatatagtct tgcggaatgg ctagcatata taacccatgc 3840
 ggcttgacga cgcattatgt agcaaaggca caagaataat aatagatact atcactgttg 3900
 tcgagcaaat agcctatcga ttcgaggata gccagaatag gctggggaca ccgggagtag 3960
 gggtagacga ctgttttgct atatcctaga ctacaaccga aaggatccac ccttgccctt 4020
 cggtttttta gtttatttat tgaatcatta atcatttagt caatctaatt tattttaata 4080
 atttattata tcgaacttaa ttctttacta atatattgtg ttaatgcaca agagtataaa 4140
 acatagacca ctcccagtct tacgggtgcc acaccagcaa gtgcatata tctactctg 4200
 tttgtacatg aaaaaaccac aatgccattg aaaccagtcc cctatttggt tgctgaagct 4260
 atctgtctca agaaggccca gtattgccga tttgcagata cgcacaattg gaccggtttc 4320
 cggggcatct tctgaccag cataaaggcc accttcata accccgacgg ctgcagctg 4380

gtcgagaaca atgttccggt ctcctttgac tcgtctttat taagttcttc gccagcgcac 4440
 tcgagacgct gcaaacaatc cataatgtcg ggccgggaga gttggagttt gccgatgctg 4500
 ccgcggggaa tgaggatgta ggggtgtagtg tttggccggt gactttttga agctaatagc 4560
 tcattagttt accttttggc tagttctttc ttcaatagtt aaatttttgt agtcttcaag 4620
 aagttcttac tgatatattc atattattgt ttctcacttt tgattattta tttctatagt 4680
 ctattctcac ttttatactc ctcatttctt ttactctgta tttcttatta aatcttattt 4740
 aatcttagca cttatccttg taataactac tactctctac attcttatca tattcttcca 4800
 ttacctgcct tcaattactt ctcctatctt tattaatctt atttcttatt tctatcttta 4860
 atatcttctt ctctatttat gtattatctt ttttctttt cctcttattt ttcttatcta 4920
 tattttttct gaactttatc attctatgta tcttcactct tattctactt ttcactcttt 4980
 ttttttcaat atctatttat tttttatttt cctcttttct catctactta tctttctact 5040
 tatatttggt ctctctcatt aatctatatt ttactttctt ttttttttcc cacattcata 5100
 tatctaccaa tctatttttc tttcactcta taattccata tctttcttct 5150

<210> 1923
 <211> 779
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1923

aaagaaggaa ggggtctagca gctaacattg gagagtcagc ccacagtcac taagctatgg 60
 cacgaaggat gaaggctaaa ctgtgtatgg cagactattg ttctttggga aggatatggg 120
 gaaggaataa gcactagaat agaatactct gaatgtcggg gttcaaccgc tagagtgtgg 180
 agaccataag cctcagccct aagtgagaat atccgagcac gaccaatcac acccttctct 240
 atacgagggtg ggcataatga tgataccaaa aataaacacc ctccggacga cagcatgagt 300
 acgagccaga cgcggtgag caaggatagc agcggtgag ccgcgctctc atagggccac 360
 gaccgcgata atccagagct aagatagcga cgtttcttgg atgccagtgc acaattcggc 420
 gctgcactct gactgcacag ctctgcagcg gtggataagt ataaactggc ctctattggc 480
 tgttcttggt ggtaagactg caggactacc gttgggagcg gtccccataa ggctgatggg 540
 actgcctgtc ggtagacacg tgaaggggtt tattcagtgc tggttaattag gcttagctct 600

aatcaaaaag catgtagtag ttttaagaaaa ccttaatcga ctctatccag tgcacctcat 660
cattccccgt ttaggcaatt cttgatagat catcatctcg tcaccgggca gcaccacgta 720
gccccattac ccaactccagc tagccatggg ggcttttaggt catgctgctg ccagatgat 779

<210> 1924
<211> 3134
<212> DNA
<213> Aspergillus nidulans

<400> 1924

aaaaaaaaa gaaagaaaga aaggtacgat agctatcgaa ggctccttgc cttgtctagg 60
cctggttacg caagtcacgg cagtcacctg gctttaggac aggaggacga ctctgtccgc 120
ctacgtccct atttatccga cacctccctc acaatggacc ccagtgttcc tatccgattg 180
aaagctctcc tcctcgactt cacgtacttc cgtacttccg tactcgacgt actttagcgt 240
tcctcgctgt cgaatttcga cgatcgccgg tctatcttca ctttccagtc ttcgtccaag 300
cgacggctgc aacttctacc agtaagcctg ccattgcat tgagacggac gattgagacg 360
agcgctagac gtgcaagacc catgtccgta cgatcatcag actaatcaga ccaactgagag 420
tacttgaaga gaggctgaca ggcgacagta tccagtagag tgtccagtac agagtccagt 480
cgtagctctg cgcattccagc tccccactt tttccccgt gtggccggcc tgcttgattc 540
ggaccgtaac cgtcgctgtg ttcttgaga gtctcgcttg gagtacgagg gacggagtat 600
tatcgcccag actccccctg cgccacggtg cttgcgcaag catataaaga gccagtcct 660
ggtctctcga gaacagtctc ccattccgaa gctgtgatcg cgcccgctc gtgctacccc 720
accatcccac tcctaccatc ctaccatcgc actgaactcg acgtcatacg cggaatcccc 780
agccgctgat cctgccacgg ttgccatgg cgcagagtga gttctcctt ttgctgcatt 840
gcccgatcgg ttttgttccc cagtctgect gtcaccccca catcatgtct ccatgatcat 900
cgtcgcatcg tcgtgtcaga tcgagggtcc tccacaatcg gatcggtgc taacgggtccc 960
tagcaaaaaca cttcttctca gacccaccc atctggttca cacggcgctc aattcgctga 1020
cgctcactaa cccgtcactc gcgttcgacc gcgagaataa gatcatcttc cgtcgtcccg 1080
atgtcgtgag gaaggggaaa gtcgccatca tatcggtgag aggggtctggt cacgaacccg 1140
cgttcgcggg gttcgtcggc cagggtctcc tggatgcac ggccggcaggc accatctttg 1200

cgtctccgaa cgcagagcag attcgtatcg ctgcaatgga gcgtgttaac aatgaacaag 1260
 gagtgctcat cattcctatg aactacaccg gcgacgtcct caatttcggt atggccgcgg 1320
 agaagtcgcg cgctgccgga atcaagaccg agttcttcgc catcaatgac gatgccgggtg 1380
 ttggcaaaac caagggcggc aagggttggtc gccgcggtat tggaggcggt gtcctgatcc 1440
 tgaagatcgt cggcgcgctg gcagaggctg ggtaagttgt ctcgttactc ggaactgatg 1500
 aaatcctgac aagttgtagt ggctcgcttg aagaggctca caagaccgct cagttggcaa 1560
 atgagaatct tgccctcggtc ggctcatcat tggagcacgt ccatgttcct ggtcgagagc 1620
 catcgatga ccacatccca gagggcgagg ttgagatcgg catgggtatc cataacgagc 1680
 caggatctac ccgcaccaag actactctcg tcgatctagt tgcgacgatg ctctccaga 1740
 tcctggacca caacgaccct gaccgatcat atatcacga ttcgccaggg gacaaatttg 1800
 tgctgctggt taacaacctt ggtgggctca gcactctcga gctgtccggt atcaccgatg 1860
 aggtctaccg ccagctcggt aaatcgtatc agatcaagcc cgagcgagtt atccagggca 1920
 ccttcctcac cagtctgaat ggactcgggt tcagcatctc actgctcaag ctggcagaca 1980
 ccgggctggg ccccggaag tcgttccttg agctcctcga cgctcccgtc gaggcggtcg 2040
 gctggtcgcg gcctatcaag cctgcgacgt gggaaataccg caatgcccc ggaattgaag 2100
 tcaagagagc caagccagcc gagcagctc ccagcaacgt caagcgtacg tcccgtgcct 2160
 ccctttattg acacgtgcta acagtacaca gtggatatcg caaagggttcg caaagtcctc 2220
 ggggcccgtc ttaagcgcat gatcgatgcg gagccccaga tcacccgcta cgacaccatc 2280
 gtcggcgacg gcgactgcgg cgtcgggctc aagcgcggcg cccaggctgt tctcgacctc 2340
 ctcaacgacg cctctgcaaa cctcaacgac gatatcgcc acacagttaa tcgcatcgtc 2400
 accgtcgttg aaaacactat ggacggcacc tctggcgcca tctacgcat cttccttaat 2460
 gcccttgctc acggcctccg tgagcaagac aagggtaccg aaacgcctgc tgataccgac 2520
 gtctggggca ctgcgttgaa atactctatc tccgcgcttg ggaagtacac ccctgcccag 2580
 gtcggtgacc gtaccatgat tgacgcctc gtaccgtttg cgaaaactct agcggacaag 2640
 cgggatgtgc atgctgctgc caaggccgcg gaggagggca ccgaggccac aaagcacatg 2700
 aaggcgtcgc tggggcgggc ggtgtatgtt ggaggcgagc aggaatgggt tggcaagggtg 2760
 ccgatccag gcgcctacgg gctcagttag ttctttactg ggctggcggg cgctctatag 2820

cggcactatc actttatggg cactggccac tggcatgtgg ttctacgtat atatctatat 2880
 gtaattattc ctgcttagcg gggtgtcteta gtataatata atgatgacat gaagtataac 2940
 gtctgcttac cagataatat cttgtctctc tagggatcgg ctactgtgt ctttagccag 3000
 tacttcccct gcttgtggga tttcctaatt gtccattagg cagctagcgg cgcttattcc 3060
 tgccgtattc aattatcgcg gccgcagcct ccaacatccg tttcagaagg ctgaacgggt 3120
 ttcaagggct tcag 3134

<210> 1925
 <211> 3002
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1925

cctggaatgg caggccatat tcggtggctt tccttgatta tggcattcta ggtcaccgag 60
 cactgttagc gacatatatt cagtgtggcg catgactatc gcaggtggag aaaacgtacc 120
 agatacggaa gctcaccag tttcctcgga tcgatatccg tactttttgc ctgtcgtctc 180
 attgcttcat caagctcctt tcttaatttc cgcaaatct caggactctt gagaacatga 240
 tatagagccg taactagcgt cccaccctg gtgtccacgc cggcatcgat aaacgcgaaa 300
 gcctcttcgg ctaggtagtc taatgtaggt ggtttcccg tattttcaag ccgatgaaaa 360
 atcaggagct cagcgacgga cgcttctgtt ctacgggcca tttcttttgt gggagtgttg 420
 aggagaggcc gtgtgtggtc tttgcatatc tatactgttg ctcaagtgtc acccgcgaaac 480
 gtatattgat caggattacc ttcttgaagc ctgctactgc tgaaggagtg aggtagttaa 540
 caacagatga tggtagaagc gagtttaatg tagcgaggtg tgggaaaaat cggactaacg 600
 agaaatgtta ggcgatatat gcaacaacag gggaattact gcctggaggc ggaaaacgca 660
 cgagtaggaa tcaaggcaga aagcccatca atgtcctcaa gcatatccag ctttctagcc 720
 tcgtaattaa ccagtcgcc gcaatctcca agaaacacgt ccgccacca gtttatctat 780
 tcacgataat tctccctttt agccggcact tcgatataaa ctcaatcaga acagaaattg 840
 aagtcaacga accgcaacag cccgaaacaa atccgtaatg ttgcaccct ctccctttct 900
 cgactgtttc accataaact gcaccaaac ctgcaatcta gcttgaattt ttggcgccgc 960
 aagttcggcc gcctgtttcg agaacctcg agcgagcacc ttccgtcgct cgcggtgatc 1020

gtcgcggtct gatagggaga agacagatcc gtggttatca gcgcaggtgt agaaggattc 1080
 atctttgtag aagtcggtgc ccaggcggaa gatactggta aatcgctccg ttgatccttc 1140
 gtgatgtttc ttgaagagag gtgaacttac tgctcataag cttcaatatt gttgatatgg 1200
 acgtggtttg gtccgatgcg gacaacgggt gagcctggaa aattttactg tataaaacag 1260
 ctattgaccc agagaagtag aaaccgtact gtatctttta tgtagctcgg gaaaagtctt 1320
 gcaccactct ccgtctcgcc agatgttgtg gtagaactcg tagaagccga agatgcgggc 1380
 tgtccatggg ccagggatac ccaggagagg gttgaagagg agtcggcgaa ttatcaccca 1440
 cgcaagaagg gcaatggcca gcaagggtat gtacgcaacg taattcatcc ttctaagttg 1500
 ctactgaaag gtggtcctgt ttgagagacg ctatttcctg agcaattcgt atgggggtta 1560
 aaacaaaccg ggaaatgact tagggtgtga atgtcaacta accacactca tgatcatatt 1620
 gaaatggagg tgcataatata ccgatgagag gtgtaataaa cgatacgctt ttcagctgca 1680
 gtaacgtttg gcacttgagc ccgtggtcgc gtatgcatga gggaccgtcg gctgggccag 1740
 aagttgggca cctccgtaga ttttacgtat gtctacctca tttcagtaac aaaacgcaga 1800
 cagatcgatt aaattcctgt attgcaaaat atcaaaccce catcacgtcg gtgagcatgt 1860
 gaaatcacat tcaatattgt cccaagtcag gtacaaaaca aactgccgat tacgtccacc 1920
 atctgcatca accaacccta ccgctctacg atccatactt ataacaaaga tgataatctt 1980
 ccgtactcat cacctctctc aatgtgcgac tctgatccag ccatccaaac ggcaactccg 2040
 tatccaagtt aacctcagga gttgtcggcg cattatggat tgagcttgtg ccattcaagg 2100
 cccacctcct ccttttagga tctttactct gccaaagcgt ccagaccga tccacttgcg 2160
 catggtgcag gaagaaactg ggatcctgcg gcgctgtcca aaaatcatcc attgttcgac 2220
 cgagctgcat gtgcgccaca gcatgcggac ccatgatccc agcctttcgg agttccggcc 2280
 agtcgctgaa gtgatatta atttgtaatt ccgtaattga gtgcgaattg agaagacgat 2340
 caacgtcgcg ctggctggtg aacagctggg ccatatgcga gttgaggttt cgggtgaaac 2400
 agtggtggga gtagttgaat gcgctggcag ggaattcggc gtcgccggcg aaagttagat 2460
 cgggcagggt gagcgtcatg ttcgcgaatg gaccgtttgt gacgcaaccg ccgccggaac 2520
 cattggggat ggtgatgttc gttgggacga gtttgaagaa ggggtcttgg gggatgggat 2580
 caccgtcacc ggagagagag gtgggagagc catcgaagat ggggctcgct gagatgttgt 2640

cggcggagag ggcccagtc cagtaacttt tggagttagt cgccatgctt gtagtgagaa 2700
 tggaattagt gtgcttacgg ctggtcacct cgataccac actcctcctg gagggccttc 2760
 tcccacaaat agacgaagtg cgatgccatc caaagaagat gccgctgagg tggatattca 2820
 ggggtgtaatt gatgtgcgtc ctgtatacgc cgtcaaactg cgaacaccgt acattcagct 2880
 ggacagactc acgcagagaa atcgccata cgatggcgga caccggggta ctgatcccg 2940
 ggaagaattg gaggtttgct ctgcatacag tgaagagcat caatgtaatc aaatctctca 3000
 ga 3002

<210> 1926
 <211> 2864
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1926
 gctgcttttc atcaaaatca cattggaagg ggcgataacg atgtctatac agtgtgtcac 60
 ggggtgtttct taatgagctg aacacttata taggtataaa acccgctatc cccttttggg 120
 accccgctcc tcgtatccat gtagaggcct tgactcaagc atccttactt ctataaatct 180
 ggaaaatgag ccctcgaagt tgtggatttg gtcttttcag tccgtgccaa ataaaaagac 240
 tgtaaacacc aataaccaa tttatgtaca acggtgtcga ataacaagc acctgcatcc 300
 agtggatata ctcccctcgt tgatattggg accacggaaa tctacgctgc tctaagcgtc 360
 gaagcagtc atacactttc aaattgagtt ctgaagtgc gttatgacac attcaatcat 420
 tgcaacctgc aaacagactc ggtttcatat tgatgacaaa ccatcccgag aggtttgttc 480
 catacccaat ttgtcaacat agagtataac tcaagttttc aggttgatat agagggcctt 540
 acagtcgcag tatcttcagt gccggagtct gtggaagatc cctcaagaac aaaagcaaag 600
 gggaaatcga agtctaaggc cgaagcaaga gagctcattt ctgatgcgca cttgcgactc 660
 aaagccggcg tgcattatgg gctgataggt cgcaatggca ctggaaaatc gagtatgtga 720
 tttgacctcg ggcgagacac tagttaacgt ggtgtgcatg cagcgttggt gcgggccgtg 780
 gccgataaac tgggtaccggg cataccgcat tcaaccgaa tagccattct gcagcagaca 840
 gatactgcta gtgaagacgg ttatgcgccc ttctatgata gaactgaaga tcaaggagca 900
 agtgagggaa agttcgttct ggactatgtc atgagcagtg accagttcag gaacgaagtc 960

actcggaaga tgaactgtaa ggacacagcc cttatctaga tcatttctca tgagaatgca 1020
 gttttgtcaa aatgtttcga gacggaagac ccgctagagc ctgtgagggg gattcgaagg 1080
 attcgccacg aagataccga gaagcagctg ttcctggccc ggaaaaatgc cagtctaaga 1140
 agtgggtgcaa ggggactgca agcgcgaaaa gagctgaaag ccgtcgaagc aagattcgag 1200
 ctttcgagag agctgtaggt tgtccctgga tcttgcacct tctcgtaagc taagttttat 1260
 agtctcgagc aggcgaaaga ggatattgat gccgaaatca taaagcaaga gaccaagca 1320
 gcgatagaaa cattgcaaga tctgcaatcc caatttgaag cagtgagtag cgcctggctg 1380
 acatcgaccc cggggttgct gaacggtcac tagatgaagc ttgtcgacat agagcagcag 1440
 gctagccaaa ttctaactgg attaggattc aaagaggatg ccttgagcaa accatttctg 1500
 acattgtcgg gtggctggcg tatgcggtgc atgctggcga gcgtcctgat tcagaac[~]cct 1560
 gacatcatga tcctggatga gccaaccaat tttctagacc tattaggagt gatctggctg 1620
 gaagaatatc tgaagcagct cagagattca acacagacga ccgtcgtcgt tgtctccac 1680
 gatagggact ttgtaaatgc tgtctgcgaa gaaattgtca tccttcgaga ccaaagctc 1740
 acttatttta aagggaacct gtccgcatat gaacaggatt ttgaagaaca gaaactatac 1800
 tggggccgca tgaaagaagc acaggagcgc cagatagccc atatggaagc aaccgtccgt 1860
 gagggcatta aagttgggaa gaaaaccaac gacgaaaaca agctccgcat ggccaagtcg 1920
 cgacagaaga agctcgacaa tagaatgggt gtccaggtta acgcacgcgg agggaggttc 1980
 aagctgaacc gagatctagc tggctggcac tcaagtgtc gggcggagat tgaagtgccg 2040
 caggatgaaa agggagctct gattgccttg cctgaccctc ccgagctgcg atttcccggc 2100
 ccgcttatat cactagaggg gatcaccttc aagtataaaa ctgatgcac cccagtgttg 2160
 aaggaggttg atcttgtgat gcacttggga gatcgctgg gtctcatggg ccttaacggg 2220
 tgtggaaaat caactctgat ccgtctggtg gccggcatct ccgtgccgac tcagggaaaa 2280
 gtctcctcgc actcgcggtt aagaatgggg tactacgccc agcattctat tgaggagctg 2340
 aaaaccaggg ggctgggaga ccctagcctg acggcgttag ggctgatgac aaaggacgtg 2400
 gatggctcac tcaatgaagg ccagttgcga gggttgttat cgtctctagg tctccagggg 2460
 aagatagtct ccgacgttcc gattcttcga ctctctggag gacagcttgt aagaaatccg 2520
 ggaacagctt aagagctagt atcactgata tatgccacac aggttcgtct ggccttggcg 2580

agaatcatct ggaacgcacc gcatctactc gtcctcgacg agattaccac ccatctcgac 2640
taccatacag tcacggccct cgcaaccgta ttgtccactt tcaaagggtgc aatactgctc 2700
gtttcccacg atcgattcat ggttcgagct gtgattgaag gaaaacgcga cctagaccac 2760
aaactagacg atgactttga aggcgtcgaa gaggagtcag atatggagct accacggcgg 2820
cgagtcgtct acgtgatgaa agctgggtact atgacggttc agga 2864

<210> 1927
<211> 3386
<212> DNA
<213> *Aspergillus nidulans*

<400> 1927

cgaacattat gccacctctg cccttcaacg aatggctgct tcgcaagaac tacaccgcgc 60
cctacttccg tcccaacttc cagcctccca agaccgaatt caaatccctc gaggagatta 120
acgttcctgt ccttctctcc atgacggttc tggaacgtgg tatggtaatt tctccggcca 180
acaaggaaga tgccatgcct tgcccaccga tcatcgacgt ggatgtcgcc gctgatcacg 240
atattgacga gacggataag ctgttggttg ggttgccac ttctgcagac cgcttgacc 300
gcttgcttcc ttctctgcta tactcttatg gaaacaccaa ggccggtatc attgttctcg 360
ttccgaactc cgacgacgac atcgctaagc aggagacata tttccgcaac cgcggtcttg 420
atttgacttt gatcaagtct cctctcgagt tctactgctc ttacttcggt cttgtcaggg 480
ccttctctga acacatccga acgaagcgtc cccaaaccaa gtggggttagc ttcatlgatg 540
acgacacggt ctctctctcc ttgcctacta tcgctcacga attgaacctt ttcgacgtta 600
acaagaagca ttatattggt gccctgtccg aggcaagctg gcaggttgac acattcggcc 660
acattgcttt tggaggagct ggcgtgttcg tgtccaagcc tttgctcgat accctcgact 720
actactacga tgaatgccag tcatggggtg agcagcccgg tgaccagaag cttggccagt 780
gcattcagcg atttgccgat actcctctga ccctctggcc gtctttgtac cagatggaca 840
tgaagggcga ggttgatggt gtgtacgaat ccggtcgcaa gattgaatct ctccaccact 900
ggaacagttg gtataccaag gacgtcgta agatgacctc tgcttctgct gcggctggcc 960
gccgctctgt cctccgccgc tgggttttcg accaggagga aatcgtgaac aacgccaccg 1020
gaaagtcaat ccgaaccttc tgggtcttca ccaacggata ctcgcttgct aagtacacct 1080

acgatgagaa cacacctgac gatgccatca actttgacca cgccgaaaag acctgggaag 1140
aagaccctcg cggctatgaa gcgcgcctag ggccccttcg ccctcgcgac caggaggggtg 1200
ttaccaagga caggtggctc cttcgggaat ctttcgtggt tggcgataat gttcatcaat 1260
ggtatgtgcg tgaggaagat gagggccaca gtgtgattga gattgtgtgg ctcggtccta 1320
agggtggcgg tgggtgctgg gttagggatt ttgcgggtcaa catccactaa ataaccatgc 1380
tctactgcgc gattccaagg ccggaccttg gaatcggggc ctttcgcttc ttgcacatta 1440
tttacattca ttgcactttc tctttttgac acctcttttc ttttctacct acaacgaaga 1500
cggacgagat ctacgaagtg gcaggaaatg gaaggcctct tcgaaccact accgaagctg 1560
gacgcacatt ttcaatcggc tattactcgg cgttggttctg gcgaaataag acggcgcagt 1620
cggagatcgt ttttcagctg ttccgagcta taagagcgac ctttctgtgt ctctgccgtt 1680
tttctgggga ggattgcttt caatgcacat gtaaaaatag agttttgttt ccttgggtcat 1740
tggcgcatgt cattatccaa gaatatgatg agttaagtct agatcttact gcagtcagga 1800
taccgtgct attatcacta atatgataac aaattattca ctttcttgctc ttgagtaag 1860
cgagagtcga atgtttcagc catgcgtttc acttttattg ttgaagacat gccgctgacg 1920
ccgttggtat ttaatcgcgc acagatctct aaatgaatca tagtggaaat cgtgatgtgg 1980
ctgggataag tatattgate tcttaagata tagctgtctt ggaacgtagg gcgatattcc 2040
aaaactcttc tcgtatacag agactcccaa caagcatcgc agaaggatga gtgcctgcgg 2100
ctatgtcaa accccatgca agccaggaga caaccaaatt cgtcaattat ccccaaccgt 2160
aagccgaaaag gtttactggt gtcgtttcgt ctaatatctc gaaccattg ccggcacgac 2220
gagcgatcga acaatgctga tagacaactc tgcccagggt caccctgcc aatgtacggt 2280
gtgcagaata ccattgaatc tgtacagccc tgaaatatac tgcagcccat tattgggtgga 2340
tattggtatg gctaaaatta ttggcgggac tategccttc tatacctttt ggtgctggga 2400
tcgatttgat acaatcaagg ctccaactgt cggctgtcga cacgaagaga ttatcgtcaa 2460
gtattagtct actgaactcc aagatgatgc gtcagtgaat ttgtaagaga gtagcaactg 2520
tcaccgtact gtagtagtcc gtaccaccgg ttcacagcg ccctagccaa cggctacggc 2580
caacaactga acctaatcac ggagtacgga gtctgtgcc gcaggactcc ggtccctctg 2640
taagaggatt gaagcaaggt acttctggcc ggctattgtg actgagatgt gttgtccagg 2700

acgggtggta gtctgcattc cttgggcact agataccac tgatcacctc tgttcgtggc 2760
cgtcaattga gctagagatg cgcgattccg agtcgtggaa ctggactcga ggaggttgg 2820
atgcttgtct ccaccgagtc actgtttact gttttgcttg acatggccac cggagcctta 2880
ttttgaactc cagctcgagc ggtgtatcta caactgactt gaaagagtcc agcgctcagg 2940
gctcaaaact gtgggcgtga ataatggggg tctcgtggga cggagtacta ccgtaatat 3000
tacgtgggat tagcggggag tgactttcta gagtcgacca atcatacagc tcgccaagag 3060
cgctgaatgg tctggacaaa cttagtcccg gccgatgcca gtcgcctatc tcgcttttga 3120
ccttgaacag cttcaggaag aatgtgtaaa tgctcattaa ggccgtaaag gtgatataac 3180
atgatgtttt aagcttctgg tccttgagat gaaaggtgag ttctaaatga ttgtcttcca 3240
agcgaagagt ataagaagtt gactggagct gtggggcgtc ccataccgta agcgcacgat 3300
gagccaccgc cttcccatct gaaacgacac ttatccatta cgagctacat cccagctcct 3360
ccccgttggc ctgtttctct caacaa 3386

<210> 1928
<211> 1153
<212> DNA
<213> Aspergillus nidulans
<400> 1928

ccgctgtgtt ataacatccc ttggaattgt ccaaatttcc attccccggg caggaagccc 60
tttccctttc aagtggttcc ggtggatgca tcatcgcgca ttgtaaggaa ggaaaccact 120
gccaaaccgt tttccgctcg aattaggggc aaccttaagg gaagcttggg tgccaaaccg 180
aatgttcctt tttaccctc caaccaagcc agtagggttg tatccactg gcgttttacg 240
agtacgtctt cgagtcttca tagcagtgcc atccgctagt acggctgtga ggttgatcac 300
ccaatccttg atagtcccg accgcacagc atttgaccg ctgcagtttg tgccaatcat 360
accgccaatc atggcagatg gacctggatc gaccggaaag aagagcccag tgtctttgat 420
tttctcgttg agatccatcc actggataga cggttgtacc acaacgtcca tgtctgcttc 480
atgtaggtcc agaattttgt tcatgtatgc aaagtcaatc gtcaagccgc cataggcagc 540
tgaaaagttt gcttccagac tggaaccacc ggagtacgga accattggca tcttgtat 600
gttgacagatt tttgcaatct ccgaaacgtc ctctgtactg gatgggtagg caatggcgac 660

cggttaagcgc tgcgcattga cgcttgacca ctccgagaag ccatgtcgtt gtaggtcgtc 720
 ttcatccgtg ctaatcgcat cttctcccaa tttaacctga agctcagcga tggcctaaac 780
 gacaaaggcg atcgtttagca acatttcaca atagccgtac tgggtccttg tttgtacctt 840
 ttcgaaatct tttgcggttc cataccgtgg ggtgccagcg tccttgggct ccaacagttg 900
 gtccgagttg ccaattccgt agccgattcc agcagctagc gacgcgacaa cagccatccg 960
 gccaaggac caggaattcg ccgagtttcc ggcagatgag ctcgagctcg agttgtgact 1020
 actcttctga tcattctcac cactctgga tgttgagctc gtcaaccgaa cggcgctggc 1080
 aaaagggatg ggccgagaac ctgcccgaca cagcatgcgg ggatttgagg ggaatccccg 1140
 agatatcagg gac 1153

<210> 1929
 <211> 992
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1929
 ctctcgtag ccaccatctt ctatgccgtg attgccgaga tccttgaaac accgttacgt 60
 tgtcttgaa agcgttgacg tttgatgaga aattcttgga atcacattgt ttgcgttggt 120
 gccaacact acagagttct tggatatgtg gtccaccaa ttagatgga gctagccagt 180
 tgaccgatga ttatagaatg ctatctcgtt tgccatgaac ggaaatattg cgctctccat 240
 ggagatcgga tccgcctatg cctgcaggt ttgtctcttg caaatacctg ctcttgtctt 300
 gtttagtgcc ttctacgccc gtgttcttga ccagaacat ttgattacac actccttcag 360
 gtacgtcagc tatctctcgt atttgttcaa tcttgagat cgatatgatt ttgaagaagg 420
 ctaattaatg ggtttaacag cctcattttc gcgcaatggg atatgattac agtcacctt 480
 tgcgtttttc tctctcttta tgtctacggt gaaggtaaaa gcaattattt caagggctca 540
 atcctcgtcc tgacctacct tgtcgtcgtg attgggttct tctctcttg ttacagtaac 600
 atggacacca tgggtgttga tcgcttcaac accttgcccc tgaacattga atctaggccc 660
 gagaaattct acacaattgg caggtcgaaa agcggagttg cctatcagcg tgttcactga 720
 ttaggcacct tgaggtgtca atggcggtt tcgctctttg ttctctgaat actttctgac 780
 ctagagactt cttgagcgca cgattcatgt gtacttcgca ggccatgttt ttgggttagta 840

gtagattct gccttcttct gtcagaatga atgccggcaa gtatagtcce caaagtgatc 900
tctgactctt tactttgtaa aatgggacaa aaaaggtgta gcttggaana ggcaagttat 960
tgcgctatac aaaccatgcc cggaaggta tt 992

<210> 1930
<211> 1689
<212> DNA
<213> *Aspergillus nidulans*

<400> 1930

ctcagtaagg ggccgagagg gagagtaagg gatagagagc ggcgaagaa caaggcaaag 60
ctgtaatatg ttcagtatat catgtttggc ttcgtcctct gggatgctag gatatgggac 120
acttaccata cccctagcgg agggcccggt gtgtcagttg ctccggtatcg tattttattca 180
tcttactgtt gcttagcgtt cacttttaga tactctagag atataatata tctttattgg 240
cgtttagca gacactacca atcagttttc ttatttcgct taacaactac tatttgggtt 300
gagtggtagg tacagtcgat tatggcatgc atatgcacgc taccttgccc tagaatagtg 360
cgtgctaact agacaaaaac cacaccaacc tgtaattttg agtcccatgg ctttgacatc 420
agagcattat ggattagcta ccatgatacc gatgcagaaa tagttcctcc agtatcgttc 480
gcaagtcttg gacctttctt taccactcga gtagcagtag tggagatata tgtttcaagc 540
acaaaagcac tagccagttc ctttcgctgt aggtttcttc aggtttctca tccaggacgt 600
ccaacagaag aaatacctca gtcacgcagt gcatcaccaa cccgcctcat tccgaaccct 660
aaacacagtc agactcattc agtcgcacca ccaccgaaaa cgatctctct aaccgagaag 720
tctgatatta tcgcattggc gtgatcatta aagacggagc agagatgggt tcctgcaatt 780
tgcagtttgt acacagaccg ggtaggaag acggagtag tctcaggttt ctagttttgg 840
tttagctaat ggagtaggga ctgaagacct ggaagaggcc taaacgagta cgagatcaga 900
tctcgagatg aaggtcaacg taccgtgtgt tgaatgaagg cttccctcag ctgggactgc 960
gatactgagt gccatgacgg agtctatata atttgatgtg actgagaggt cgtaaagaga 1020
gtgggtgtaag aggctgatag aatgacagcg ataatagcgg tggagtatca tggatatttg 1080
atactcgtg gcaaggagaa tagccacaag ctactcaag aggtaggacc tagggccgtc 1140
agacacgtca tcacgtcca agtcaacaaa cctaacagtt atcctcggag aagagtcaaa 1200

tcaaactgat acagtcacct atcatggctg cacatgctgg caagatcgtc ataaccatta 1260
tctctcgatt ggtctcggag aagtatggcc atgaccattt tgctccggat gtatcccatc 1320
catcgctga agctcaagct ccgcagctct tgatttctaa ttattctact atctctccag 1380
gcttgaata aagtgtccga cgtctatttg agctcttttg ggagcggctc ttgcgtactt 1440
ccaccaaagc tcaatagctc gagccacgat cccgcgattc cacagagggc cgctgcttcg 1500
agccgaacat ttcattccaa gaccatgggg catccaagtt agcgaatcga tggcaccctc 1560
agcttctcca gctccagccg catccatgac aagcacagaa tggaccgtct tgccgggcat 1620
ctgcaccccc cgccggctcg tccatggctc gcaccctgc tcaatgcagt cctcaccatc 1680
tagccccag 1689

<210> 1931
<211> 4419
<212> DNA
<213> *Aspergillus nidulans*

<400> 1931

acctgcgcgt agatgagttt taggtcggct acctgccc aa taaccgcgcc tggcttgagc 60
caccgcgggc gggtaattg ctctgtgtg tccgttttcc acccataact atccggcggg 120
agagtcgact ccggcacact ggcacagccg gcacgtctg tcaggttatg aaaacactct 180
ttgcttgagg agaaaatcac gcgctgcgag tacttctggt gtgtttccac gccatccttg 240
cggaatgggc gatccaccgt aaccataccg tacctctcac gtaacttcgc attcatttcc 300
cgtagcaatt cctgataccg cctgactaga acctctggcg gcacgtggaa gaaaatgtcg 360
aagccgtcca caacaaaaac aatgtcatga tcttgaggc gcgggggtga cgcaaaaaag 420
ttatatatcc cagtaattct gtcaaccatg taatcatgtc cggccgatcc cgctggaagt 480
tctctcccat agcgcaccag cgttggcggc ggataattta gaatcatggc cgaagtcaag 540
gtacggcata ggctggggtt gctgcgggtc gcgggcagga cgagatgaaa cgatgcattc 600
gtcttctgca gattattcga cagtataaag gtatcattgt gatcgtaggc aatccggggg 660
gttatgatcg tggcgtcttc aggtcgaccg tggaaagggt ggtacgaggg gtattgaagc 720
cagtgattga cctccggctg aagaatcgtc agtccttagc agtcccacat ttgccatttc 780
agagggctta cctcgcccgg agaccgcatg aaaagaaata tcaaaaagaa gcatcctgcg 840

actgcgagaa gcaaccgctg cggtcgcggc cgtgggagag gatagtaagt ctgctgcagg 900
 aaccgcgtgg cggacaatcg ccaggaattg tactggtcag cccagggacc aggcaagtgg 960
 ttgtccaggc cgctcaggaa cccgcgcaag gccatctgga aactcagctg tgcgttgctg 1020
 ggagcaaagg gaaattgtcg atttcaatcg tggaagagaa ggttgaagat aaacattccg 1080
 gcgcggattht agtcaccgca ggcgagggga atgggatgat aacgactcct tcgtactctg 1140
 aggggcctag agaaaggaca gatgagctta agaagaaagg aaaagatcaa cggcaagaag 1200
 aggccatgtht gcagaagatt tgcactgctg tgatgacgca gctgtcgctt gcgacagccc 1260
 cgacccggca cttagtttca gatctgtcaa tgtcaatcga tgtggcacat aatttgtcta 1320
 cagagacctg gaatctttga catgcttgtht tatctatacc caaccgactg attgattctt 1380
 atatccagta tgaattgcct atgtttcttt ctgcgagccg aatatcttgg gtttaacctt 1440
 ccgttcatgc tcggggcaat tctccctagt agtggccgcg taatccgacc caaccctgcc 1500
 gtttcatatt gacaggccga tcccaggccc tggcagcatt agtgcacaag agttctcgct 1560
 aataaaccat gatctattgg tagtgcagct atgatcaact gctgctgttg agtttgccgc 1620
 tgtcatttgt ggagtaccca ggcaataatc agtcattaga tgtacaacaa agccggtcgc 1680
 aagtggaaac cagtggctaa atagcaagtc agatgcagtg cgaaggtata tataaacaaa 1740
 ccccaaaacg ccagtatgta tgtctatcct gcaatcaaca tggaataaac ggacaactca 1800
 ttccaagtaa atctctctc gtaaccgttg cagattgcgg aagatccgc cccagggccc 1860
 ctactctcc tgtctttgat gccccctcga ccccgagatt tgtgtctgtht gactctgtga 1920
 cggagcctca actgccctcc tccgctctc gacgagcttht gctaatccgt ccacaaacct 1980
 caccgcgccc ttctctccg ctgtccctt ccacacaaa gatagtgtcc gtagagcctc 2040
 caccctgcgc gctgcagctt caagcccacc atcgctatcc agaagctcat tgatctcacc 2100
 acgtagcttc tttgcagctt cctgtccttht ctctcacgc gtctgactgt ccgggcctaa 2160
 atctggtgcg gaaacagaga tgaacgagga cgttatcgaa gtctcagacg gtggaagcgg 2220
 ccactccatt gcgtcgccga aggtctgaac gacttcttcc aagcgcgccc ggacctgatt 2280
 cagggtgcga aggttgctga tatactccgg ttcgctcttht ttctctcgt gttctcctcg 2340
 ctctgtggga tctgattcgt cttcgggtht ctctccgga attgtcggcg tagtagtaaa 2400
 cctcgcaatc tctctgcca gcccctccgt cagcaagtcc gagagtgcga tcgcctcacc 2460

gcgaagaacc tcgacttcgt acgcgagccg gttgccgctg cggatgattt catccgtaag 2520
 agaagtaagc gtgcttgagt ggcggatggt ctgggcattg gtttgtgaca ggatagattg 2580
 gacgcgagtg gagaggtcgg tgagattgac ggcacgcggg tttgattggg attgaaactg 2640
 tgaagattgg agactcagtg gcgggagagt gtcgttgagg aagtcgacgg ggtcgaaaga 2700
 tggatttgcg taatcaggat tgactgtcaa tgttgacgcg gatgttgggg gcggagctgg 2760
 actgggcgtc ttagacggcg tcattgcgct tgggggtatta tggaaaatgg gaactgtgtt 2820
 tctatgactg agttggcatc tttgaagcag taatttgtcc agcgggactg atggataccg 2880
 tgcttgggct agatcgaccc cacaatgact tctgggggtg ttcaccgcct gccattgttt 2940
 acattgtata cagtggattg cttacagaaa ttatttcact ttgctttagt atctcaagta 3000
 gagtctataa acagtacgtt gcgcgggttg gtagtatgtg catctacttt gttgccacga 3060
 caaatggaag gcttcataaa gatagtcac ttgaattcag ataatacata ttaaaggcgg 3120
 gtatcgtgat attaaaccaa aaagcaaagc cacaagatca atcaaaccac aatcccaaat 3180
 actactgttg ttcatgccat cgtcaatctc gggtttaaat gtcctccacc acacggcggt 3240
 aatcgcatgc tgaaccacac tctccctgg ggcggcgcgt agcgctaggc cttcgccag 3300
 cattctccgc cgccgctagt tgctgctgta cggtttggtt tggcgccgga aggaagatga 3360
 cttgctgtt ggccgtctta gccatagctt gcacgcctc gagatatega atctgcatag 3420
 caggagcaga agaaaggata tcggcggcct gacttgatta gcttagatcg cgggacaatg 3480
 gcttagcaca tacctgacgc ataagtttg cagactcgac ttcagcacga gcggcaatga 3540
 cttgctctc tccgatacgt ttagactgcg ctgccatgga cagcgagtcc tggaggtcat 3600
 cactgaagat aatgtctttg atgagcatag actcgacgtt gacaccccat cctgaagcca 3660
 ctccctcaat gatctccgac gttgactgag caatctctc acgtcgctcg atcacgtctt 3720
 ggagaacacg cgcaccaatg acatgacgca atgtggtctg ggtacgctct acgagtgtt 3780
 gcttgatggt ggaaatacca aacgccgcct tgtgaggcga gacgacttgg tagtagatga 3840
 cggaagtcaa gttcagggtc acgttatact tggatcatga aatctggcga ggaacctcga 3900
 cgatctggat ctttacgtcg attgtgataa gacgctcact cagcgggttg acctgacga 3960
 gaccagggtc tactgcgcgc tcgaatctat gttatgttag ctgcgcgttt ttcgttgttt 4020
 ttgttatttt cgcaggtcac tggagtgcac gaaccggccg aatcgctca ccaagccgac 4080

ttcaccttgt tggacgggcc tgaaggggtt cgggcatggg cagcaaggaa taactcccag 4140
tctccgata cattcaccga tggatatgtc tatagaaatc gcttggttag ctctctcgaa 4200
acttgactcc cttcttaggg ctcgacatac taaacgacgc gtaccagccg tgcgcttctg 4260
ggttgctatc atcgtgctcg attgtggatg cgtaccgagg ctgcagatcg gacagacgag 4320
gaggctgtac ctcgacaagg ccataaaatt actgctgggc cttgccattc acgccagtgt 4380
tgcagcagtg ttagagcggg gcttgaacgg cagacatgt 4419

<210> 1932
<211> 2857
<212> DNA
<213> Aspergillus nidulans
<400> 1932

cactccatcc ctctcgacaa ctgtccttct cgtttacctt acaacgctca atatgttttt 60
caagtccgca ctctctcgcc ttccacgggc aaagtgtttt tcgaacagcc ccggcgctcac 120
ggtcgaacaa gtgagacaga tcgccaagc ctgcgaagat gccttccgca cttacaggaa 180
actgtccctc gatcagcgca aagctatcgt cgtaaaggcg ctggaaatca tcgatgccaa 240
caaagagact cttgcgcatg agttgactac acagatgggt cgtccgattt catataccgc 300
cggtgaggta gataccatgc gcaagcgagc caactacctt atcgatcagg cggaggatgc 360
cctcaaaaacg atcccgggac aagaggagaa cggtttcaag aggttcgtca agaaggcgcc 420
agttggctct gttcttcttg caaccgcatg gaatgtaagt tgccccaggc tttccgaagg 480
gttggaagct aaccggtcag tatecttact tgatcaccat caacgcactc gtccccgcgc 540
tccttgccgg aaacaccgtg atccttcgtc cttcacctca gactcctctt gttggcgatc 600
ggctctctga atactttgag aaagctgggc ttcttaagaa tgtgctgcag gtggtgcac 660
tgggttcgtg ggacgttcta gatgaggctg tcaagattcc ccagatcaag cttgtttctt 720
tcgtcggttc tactcagggt ggtctccgtc tccgccaggc gaccgccggc cgaatcttgc 780
cactgaactt ggagcttggg ggcaatgacc cggcttacgt ccgtgccgat gcggatctcg 840
cgtacactgc cgcgcagggt gtggacggcg cagtctttaa ctctggccag agctgctgct 900
caatcgagcg gatttatgtg catgcagatg tgcacgacgc tttcgtagcc gaggttcgaa 960
aggagctagc aacgtacgtc tctcaccctg aatcaagaac atcattaacg aatgtagata 1020

caaactcggc gaccctctcg acaaggctac taccactggc cccgtgatct cccatcaagc 1080
 tgtcaagaac attcaagccc acattgacga cgcattgtca cgcggtgctg tggactcgac 1140
 ccccgagaac cctacttttcg cgaaaattcc cagtgaagga agcttcatcg cccacgcgt 1200
 cctcactaat gtatcgcacg acatgcgcgt catgcgcgaa gagacttttg gccctgttgt 1260
 tcctattatg aaggtgcaga gcgacgatga ggcagtggcg cttatgaatg acagtgacta 1320
 tggctctgact gctagcgtct ggaccaagga tatcaaggca ggagaggact tgattgagcg 1380
 tatcgaggcg ggaaccgtct tcatcaatcg ttgtgattat ctttctccg ttcgtggcaa 1440
 aaccactat gcatcgaata tgatactaac tgcaaatcag gacctcgcat ggattggctg 1500
 gaagagctct ggcttgggct gctcgtcgg tccgcaagcg tttgacgcat tctacaagct 1560
 gaagagcttc cacatccgta caaccacgg ttaaatatag ttctgttgat ctcatagata 1620
 tatacataaa catacattaa ttctcacgtc gctgtttata acttttatct cctattaaag 1680
 caagatatct ttacgagga cttgcgtgcg cactgggtct cgttcgtctt cccgaaccct 1740
 gtgacatacc tctcgtgcct cccaccctta agtgtgcgac tgtactcgat gccacactg 1800
 ttaccggtct tcacatcaaa aggcacggga ctgggtgtagt catgcgtagc ggtcaacccg 1860
 gcgtaggtct tcctgaccac gtccaggatc ccataaccac cggaacactg accctcggtc 1920
 gcaggaatcg gccactcgta ggtcttctga gagtattcac cgcagccat gggccggtta 1980
 tacgaaacat tcaggtacag gttgctcgta tcgacttcat agttcgtgta cccgaccttc 2040
 tcagcaagga aagaaagcag gtttgccgag cagtcccagc ggcctaaact gggaaggccg 2100
 aagttggcag acaaagacga gatgatactg tagtgagtgt agaaggtgtc gtcttccttc 2160
 ccgatgaggt ccttagggac agcaccacca agcaggaaag agaaaatctt attgcctagc 2220
 tcgtaggtgt cgttctcgtc gaaagttaag aggatcagcg tgcgttggt gaagtactcg 2280
 ttgtccagca ggtcaatcag gaactccac gtccacctac cggagaaaga gatgtccgtg 2340
 tcgtgtccat cgttcgtcat gttcgggtgt atgaaactgt actgaggcag acggtgggtc 2400
 ttaagtcct cgtagaacga ggtgaagtgc ttgatttggc gcaggcgcgt ggggtcctct 2460
 gttattgagt cgtagaggat agcgggattg tgcttacgaa cgtagtcgtt gtctcccgaa 2520
 gtgggataac ggaagccctg gtagccggg tagggcatgt gttcttggt ctcgccccag 2580
 gagatgttct tagtgtcgaa catatccgca atgggtggaga tattggccg aatctggttg 2640

aagtcgtcat tatccataacc gaatgtatcg cctccttggg aagcgcagta gtttggctcg 2700
gagggatgag tgacggccca aaagttggtg aggggtgaggc ccttctttgc gagccgggcc 2760
agatgcttct cgctggcggc aacgtcgtaa tccttggtaa gtgggttatta ctttgtcggg 2820
tttgagggat gacagcagaa cagagcgta agtattt 2857

<210> 1933
<211> 1597
<212> DNA
<213> Aspergillus nidulans
<400> 1933

tcgaagagtc gaccaaggtc acaggccccc cgaggtagag tgaaagtgat ataaaatggc 60
gaccacggcg gtccgagaca tttggttaagg gcccatgaga tatggtgtat tcaatggccg 120
cctcgatttc ttaacctgac gttgaggttt gatatcgga attagagtaa taaggtaaac 180
tttgaccttg gcggctccgg taaacgaggt accttaagcg cgcggttaagt agcgggcggt 240
aagatcgagc ttggtctggg acaaacaaca ctcggtggag tcgggttga ccagcgaaca 300
atztatgatt ttttgacata cctccaagtc tctttgtctt gacgagccgg cccttgggaa 360
ggctacacca ccaatcggcc tctatcaatt tcaactctctt ttgtctctcg actacgcctg 420
cgccaaaaat aatcccgatc attgatcctt gctttcagaa tgttttcctc gaaacccgca 480
accccgtaa ccgggctctc tatcaacacg aactccgcca attctctctt gtaagagcat 540
tgcctttttc agctaactcg tgtcctaaca tacctatcgt tgaaatagtg gtggcaatac 600
gaatcaatcc gcaaatacgc cggctacgac aagttccggg gggggtctat tcgggacggc 660
cgcgacgcaa tcaaagccag ctggtagctt attcggcaac actgggatgg gtactacaca 720
acaaactcag tcttcagggc caagcttgtt ttcagggctg ggtggccagc aaaatagcac 780
gtctggtagc ggattgttcg gcaacaccac agctaccacc acacaacagc agccaggcgg 840
tcttttctcc ggcaactactg gcaccaacaa tcaagcgaac agttctggag ggcttttttg 900
gaacacggca tcgggtgcca cgagtcaagc ccagtcgaaa cccacgttcg gtcttggggc 960
tacgtctacg accaataata tcttgtaaga actctcttga acgagcagtc tgtgtgatga 1020
gatggctaata attaatagtg ggtacaaatc cgggtgccgg tcagcaacag caacaacagc 1080
agcaacagca gggtcaaaaa ccgacactat cgctcttcgg aactcaaaac accacttcgc 1140

agcagcccac acagcaaaca ccggcagcgg gatctaacac ggtcatccaa ggtgtcaagg 1200
 tggatatcac taaccttctg ccgaccacca agtacgaaag ctgcgcggat gaggttaagg 1260
 cagagcttga acggttcgat accttcattg ttaatcagat aaatatgtgc aacgaagtcg 1320
 ccagtatcct tcctctgggt gcgtctcaag gtagcactat accgaatgac gtggagtatg 1380
 tccaaggcaa gctagaaacg atgcagcatg ctttggaata tgatgccagc gatatcgatc 1440
 agctgcgtag cctcgatatc cgggatgcag cggaggctca ggtcgccttc cgtgctattg 1500
 acacctcaa gctacctttg cagtaccagt caactcgggg gttcctgggt ggtgggtccgc 1560
 tcaagatcac aaaggtgtcg gattctcagt ccttgcg 1597

<210> 1934
 <211> 2105
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1934

cttgctgcat attagaccat acacaaacat gtcagcaaat cgatcttagc agttgtaccg 60
 aagtcagtag tggttttaag cggatcaacc gaccttgtca aagttcttca agaggttgac 120
 tatccggccc tcaacctctt ccttcttaag accggcaggg gcggaataga agcggacagc 180
 cggcaaggca aagcgaggag ccaattgagc tggacgagca acgggagagc tacggatttg 240
 gagagcagcc tgaggcttga cggcacgagg cacagaggcc ctcaatgaac ggacgacagc 300
 ggaacggaac atgatgacgg tagaagggcg cggtgaaaag tgcctacacc cgagttagaa 360
 aaagtcgaca aatagatgaa ggcatacgat agagattacc tgagcagaaa aatggaaaga 420
 tggacagcaa aagggaccga taggagcttt gtctgatgct ggagaggtga acctgaattt 480
 ggcgttgcca acttgcggtt tcggggaaaag caaaatccct tgcaccgacc aatcaccgcg 540
 cggcagaaac cagtgcata agccgcctgc aaaaccgctc ccagcaacga ccggccttcg 600
 agatcctcca gctgctccag ttcgaccccc tcccccaatt gatcttcccc tcaactcgtc 660
 ttcatacgac gtccgtctgt cgacatcccc atacacagat ggctacctcc agatctgtgg 720
 cgagactgct cgccttccga cggcctgtgc cctccattgt gccttcgtat ctcttcgtcc 780
 cgaccgcaaa cttctcttcc tcggtgagcc gggctgctac accgtttgga cctcctccat 840

cgggattccg ccttcctccc cccaagcgat gggatcagga ccccgagtcc tctttggaca 900
 aggctagcaa gtacttcctc atggcggaga ttttccgggg aatgtacgtt gttttggagc 960
 aattcttccg accaccgtaa gtcttcctcg caatcggcat tggatcctgt cgagagaggg 1020
 tgtgcgacgc caccagctcg attgaacgca ctatcttcaa gagtcccaaa tatactgtgc 1080
 taatgcggct tgctcagtta cacgatcttt ctaccccttc gagaaggggc caatctcccc 1140
 tcggttccgt tggatgaacac gcccctacga cgnctatcct actggcgaag agcgctgcat 1200
 tgcggtgcaag ctctgtgaag ctgtctgccc tgcgcgaggcc atcaccattg aagctgaaga 1260
 gcgtgtggat ggaagtcgcc ggacgacccg atatgacatt gatatgacca agtgtatcta 1320
 ctgtgggtac tgccaggaga gttgccccgt cgatgccatc gttgagagta cgttttccac 1380
 atcttattgt tactggactg tctgctgaca agtaatccag ccgccaacgc agagtatgct 1440
 actgagaccc gcgaggaact gctatacaat aaggagaagc tcctcgccaa tggtgacaaa 1500
 tgggagcctg agattgcagc tgctgccaga gccgatgcgc cttaccgata aattattcag 1560
 tgtctttatc ggacgatatc aatgaatgga aaaattcgtc aaagaaaagc ctgtattgcc 1620
 accaactgat taccaggatg ctttgccgca ttcaatttat ttccttccca ccctgtacat 1680
 aactcatgcc gtcgctcaca ctcttcctcc tttagtactg ctatgtatct tgacggattc 1740
 gtagggatat ctgataccta cctagtttcc gctcggttgt cttttctgta cctgtgatag 1800
 aagagatttg tgttttaata ttgttaggga tcaattgagc tatttccttt gttgcattca 1860
 ggcgtcacga agatcaagcc aaagaggctc ttagttaaat aagggttgact actataagtc 1920
 atcaagtcaa tacacagaac agcattgaac aaaatgcctt tattgtatca acaaactcgt 1980
 accaaatgca tatgtgcaca agatgacgga atcccattat aaaacaaatt ccaaaacacc 2040
 tgtctccaga gccactctg acatctgttg atactgcgcc acagaaaagtc ctaacggaaa 2100
 caggc 2105

<210> 1935
 <211> 2308
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1935

ccacaaagtt gaccggtggc ggcgcatgag tgactgacaa gggttcgtagt ttcgctcgagg 60

tttggtcttg cggatgccgc caatctatgg cttegtattg cgtaaaatag tcgctatcag 120
 cttgtccata aatgtggtct ctccagacct atagcggaag ttcccgactg gagtcctgga 180
 gatgccggag tacacatcga gcctatcgcc gctatcacgc caaatcgctt ccgcgaagaa 240
 gagttggact cgcagtgggc cctccacctc cccgtcccat tggagcttgc ctgagggacc 300
 ttggggatgc attctgcgca cccatgagtc cgggtccac atttctctt tgctcgaacc 360
 gcgggtcgag tagtcaacaa cttgccgcat aaagcttaga tcaaaataat tgccttgcta 420
 aaagcgggac cagagcccag acgaggctag cagcagtttt agccctcgtg ctagttcctc 480
 ggaccgaatc caccgctgcg ctactaaagg gctggactaa atggaatcca cgggcctctc 540
 tgcgtctttt gtgtggttgc agtggctagt tccaccgata atccttctcc aactgggatg 600
 cacgtgtgat atctggccgc cttggctatt cccatgcttt gcgatcgacc tctgcagacg 660
 tcgaaaggac agttcgagga gggagaccag gcgttgaaac ttcgagtcca aatccaatag 720
 cttccggggg gagacgatcc attccttgcc tcaggccac gaggttgac gataccttcc 780
 ttaataggca aatgaacgtt acgtccacgg gtccgctaag gaatcatcgt ttaccccagg 840
 attggcatcg agacagtcgt ccaccccgct tccagtaagt ctattctag ccagcaaggg 900
 tagccaggaa tgcaagtgcg gaccggcttg agcttggtga tccgcaacga cctactaagt 960
 gttcagtagg cctatcactg gatggtgatt ttcacccctc attgccaac ctctcgtcct 1020
 tcggttcgca tacaacgcag tggatatcgg atttgtcagg acacttctaa acgctattat 1080
 tagcgccacc ggctcttcag actgttagcc gacacaatac ggaccttgaa ctactcagat 1140
 aggcgcgacc agggagatac tgaagttcca ttttgatggg tcggcattat tctggaacgt 1200
 gaaagcgggt tcctgaacgg ggccaaggat ttggaattca acggcagcac cgagagtcgg 1260
 tggcaatgac gagcctgaac atcaaatggt aatagtgcg catgatagac ccaaagcagc 1320
 ggtaatggaa ggttcttgga atactccaaa gccactatcc aaagcctatt ccgactctat 1380
 tgacagacgg tcgtctcgat ggttggtgca gggtgacctg agtggtcgac ggcgagacgc 1440
 gtggaggcgc ggagatgagg gcgatagcgc gtttcagact gttgtagctg gtcaagtgtt 1500
 aactcaattg acaatttcga gcttgcttct cgctttcaat ttctaacttt gctcaciaag 1560
 aatcacgact cattgctctc caccaaatta tcggcttggc ttatgagagt ttgtgagtta 1620
 cgaagcactc actggctggc aaccgtaag accatcgac tctgtcccca ttccccgtac 1680

atgccctctc ctaaaccctaa tatcgcgat ttcctgtagc cccagatagc tcgtcggatt 1740
 cttattatcg tatcttttgg acggtcggat cttccgccc ggatgtctgt gattatgcag 1800
 gtcaggctcc atcacgggtg tttctccgcc attatcctca caaacataat gagactctcg 1860
 aattgggccc tggaaatcgc tcgtagacc gcaaatctga tctcgactgt tctacttgaa 1920
 ttgtgaaggg atgaggcgctc gggagaacgg ggaaggctct gcaacgctct ctcaaaatca 1980
 gtatcagata gcagatgata cagcgacttg ctcggcattt cgtaacgtct ttttttttct 2040
 ttgctttttt gttatcttca atcagaatct ttcgactaga cccgtgctcg ccggacggtc 2100
 acaccagtca agtgcaacgc gccagtaat cgccattttg ctgggttcgt gtcaaaagca 2160
 tctcactctc ataagaactt tctttgacgg agcgacggcg gaccaaacc cgacaggaca 2220
 gttgaacggg gattatcctg gatgaagaga agacnagagg tgnagagaag cctggcctga 2280
 tctgagcgctc gaaaggcccc agcaaatg 2308

<210> 1936
 <211> 2687
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1936

ggatccgaaa gcaagggatc taccctgagc caagctgacc tgaaactgag cgagctgtca 60
 gagctcagga ccaggaccgt ggatgagatc caacagcaca cttatactgc tcacgcagtc 120
 tgacgttggg acaaggggtat gtacggtaag gctacgaggg cacagccgca ggttaccaag 180
 gctcgttgta cagataccac aataaacttg cgggttgcaa atcactgcag agttttcctg 240
 gttgccactc acaggcaata cattgtttgt gggacgcaaa cttgatgcac tgcgctgcct 300
 gcactgcatg attgtgaatt ccagatgcat gagaatgcat tatgttaagg gccagagaaa 360
 tcggacgctg ctgcctagac gcttggtctaa gtgtaaagaa gttcaataat gaagtttcaa 420
 gggtcagctg gagccctaca agtctctcgc acttgctcgc tccagaagca ctgcacagtg 480
 cactcaccat aactgtatct ttggagagcg cgggccaag cgaccagtcc agccagacgg 540
 tcgacagacc ccggggaggt ctggtccctg ggacctcggc ttgctgtcag tgggtgggat 600
 gatgtcgcaa aagggttaca taaacacgga agttcggcgc ttcttattgg aaggtcgcaa 660
 cactaaagat aggcgggacc ccacttccca tctcattggt gcttttgaca ccaggctactt 720

ttttgacatg acggttcgcg cgggacgagg gctggggata ggacggacga tgcataaaaa 780
 gtgagcactt taggtctttg aaattcggat aagcctgaga cggcacggag atggtaagga 840
 taccaagggt gtcaaactgg tgaatcttgg atatccaatt cgtgggtactt tctcttcggc 900
 tcggccctac ctgctcccca aattgagaat ggctagaggt tcgacattat tggagcttgc 960
 agtaatgaga agcctaccga cggccggttag tccggatgta tggtatccac ttcttatatt 1020
 aaaaaccagg ctttgacct tcgacatcgt accatgcaga agctacgccg agctagaata 1080
 atgctagctg ctccagacgc agagctagaa ggcttcgaga agaaaacggc ctactttcct 1140
 gaagaattcc agttccacct ttttgatgaa ggctcggaga tataccaggc cgctgtcact 1200
 actgtaaggt cccgttccat tactgggtcc atctcatacc gtcgctgcga ctgctgcgca 1260
 ggtcacggca agtcatatta gggtctccat aatcatatgg ttcaaaccgg atgattatga 1320
 agctagaagg cttccagaag gacacggcgt gacatccttc atcccctagc tctagcttta 1380
 cctaggatct tggccgacac tattgctacc cactctttct aattgaaatg gtaggcactc 1440
 cgagaatacg taccgataga gccgacatcg agccatgctc tgtacgacta cggagctgga 1500
 agtccatta ctgacgctag aaggcttcca gaaggaaatg gcgccattct ctctacatac 1560
 cgctagcgag ccgaacggag tcgaagtagc aagtcaatta cgtacttgcc ttccagttgg 1620
 tggcaatgtc gcactacctg cttatttcga caggcgggtga ttgggactag ggccctcagaa 1680
 tcaggccagg cgccatgctg cgcttctcag actcgagctc gagacctcga acgtttgatg 1740
 cctccactac aatgatgcgc cgggtgtatcg ccgagatttg tttttgtagc cttgtaaggt 1800
 aaaatagacg aggggtaacc taacagcatt gacggcaact cgaatagtag tgtcaacggt 1860
 cggctgcggg aaccgaagag tgagagttga ttaaccatcg acgacctgaa cactcaagat 1920
 tcaccgtcat ttcttagcgc ccaacgcaa gaggaacc gttgtggcac agacgttaga 1980
 gaatatgacc ggtcagcaga atatccttgt cgtcagggtc tgcacagac tgcagtttgc 2040
 ctggtcagag aacgataagt gatagataag cgctaact caaaagtagg agtaatggct 2100
 tagccggctg attgcgcgta tctgacgaca acaacggtta tctatcatga taggattggg 2160
 tgagctcgaa tctgacagtc gcacccgcgc tgaggtggaa aattgtcgt ctaccgcagg 2220
 taccgacgcc gtaccgcgat gatcgacgcc gtcaagccgc cttgcatgaa tacggtatga 2280
 caggacggct cgcgctcacc gtcagcacct gattttcgag tcccgcggtg cggatgagat 2340

gacatgacag gtcacagaat ctccactcac ggcggataaa ctaacaaaag aggatatcaa 2400
accttcccaa aaatgcagtc gggatcgcaa tccgcgtgta gcgataactg gcgagggact 2460
ttggccttga atgttggcat tttctgggtga tctgatactc gtcgcgcgca cgaggttccc 2520
ttcgggccag tgatagtacg cgaatatgac agctgccttc ccgcacaagt gggtgcccga 2580
gacccgccgg gtcccttaca tccgtttcac tttgctttgg gccttttcga cgctcaggat 2640
caggccaggg cttctttcttc acctcttggt cttctttcttc atccagg 2687

<210> 1937
<211> 1589
<212> DNA
<213> *Aspergillus nidulans*

<400> 1937

accacgtggt ctcttttata tttcctttgc agaaggcggc ctatgtactt ctatttggat 60
tcatcaacat ctggaccgtt atgattcacg atggtgaata cgtcgccaac agccccgtta 120
tcaatggagc cgctgtcac actatgcac atctttactt caattacaat tacggtcaat 180
tcaccacttt atgggatcgc atgggtggca gctaccgaaa gcctaacgaa gagctcttcc 240
gccgtgagac aaagatgggc gaggaagagt ggaagcgaca gaccaaggag atggaaacta 300
ttctcaaaga tgttgaaggt gatgatgacc gcaaatatct cgctgaggaa gatagcaaaa 360
agaacctgtg aatttctctt tggctctgaga cctacagggc tcggcagtca atgtctcaat 420
gcacctgaca tggttctgta atgtcactcc aacggaactc gtttcaagtc gcaaaggctg 480
gctctcttac ttgtggetca cgaggttgac gtttttctta cccttgctg cttccttcta 540
ttcctgcatt cttatctgca cataaacctt attaattgca cactgtacag caccggtacc 600
agtattatac taatcattct gtcaacactt tttctgatat gtcagcggat gccgtggtaa 660
accaccactt tcgattatca tcacagcggc gtagttgggt ttaaaactta tttatggcct 720
tggttttcga atgtacatag ctgaatacaa gcaacatttt aagtaaaata tttcaccgtg 780
ctactctgac cacttggcac tcggaactgc aggaccgact cagctaagaa gcagcttagt 840
gaaggcaagt tctatgtaca caacgggtca gttcgccttg cttgtaaaagt acctgagatg 900
aacttaggat ttgcctctca taggttgat aataactttc tggttttgct cagagtctta 960
caagaggcat ttgtttgcaa ttaccgctat acatatttaa attcagaata aaagggtacaa 1020

gcgacaagga tcagatacca gccgtcctat ccgcatccgc atcggcaata tccatatcac 1080
catcgcccg tccatcccca gggacacttc catcagcagc agccggaggt ggggtcgggg 1140
ctttcgctcc gacaggtggt gcgctggaca tagcctggct aatgaaggct tcctcgacgc 1200
cggccttgcg acgaaacgcg cgaagccagc gtttacccca ctcacgaatg atttcgtcct 1260
cgggcaaadc gccgctgccg tcaccacgtt ccatgagctg gtcgttgcta cctccggcca 1320
cagaaacgac ggagtcttca atgacctgga aaagggcggt catatccttc ttctcacggt 1380
taagagtttc atcaagtaca cttagctgag gctcatagag acctggctgg atgcgagccg 1440
cgacgatctg gcgaaggcgg ttggtgactt tgccgacagt agcagagatc atttcgaaga 1500
tgtgggtttt tgcgagaata gtgcctgcgt ccaagtgggt gaccagcgaa caaacaatga 1560
cggaaggggg tgtaggatt gtgtgttca 1589

<210> 1938
<211> 1592
<212> DNA
<213> Aspergillus nidulans
<400> 1938

acagcggatg cccgaaaatg gcgtctcat cccacgcgc cttccagagc acattcaaag 60
tgacactccc cgacagacag gtccaaaccc cttaccacgc acggcgcgct cacaagaagt 120
cgaggaatgg ctgtcttgct tgtaaaggcc ggcgggttaa agtgaatatc ttgcctcctg 180
cattatcttag ccagcggcgt tctgacatat tggaactagt gtgatgaacg caaacgcaca 240
tgcttgaggt gtgagaacta tggagcagcg tgcgtctacg cttcgtctca agctacatca 300
tcatcatcgt catcgctgcc gtcgtcgtct aggtccagca gtattctgcg tagtgcgact 360
gcaagcacia gcaaatctac gccaccaaac aacacactaa cgtctctgtc catctccgac 420
atggtcaatc gcgtccggga caccctaggc aacgatctag ccttggtctc tcggacaatt 480
gggaatcgcg atgaggcact ggatctcgca gtcgactcgt tccggttctt cttgacttgt 540
tcagtaaaca gcatttcgac tccgcagatc tatcaggtta tgaagcgca ggtggttcat 600
gtcgcgtttg atgtgcgtcc ttctttaaaa agccctcgt tttctcccat ttggctagat 660
tcttacgtat cttactgtag aatccgtatt tgatgtacac actcctcggc tgcggggtcc 720
tgacatgaa ccgtgtatca ccaggcaacg aatctcggga gtcggcgag gcgtacttct 780

ggcagcgcg agtgcaacta tactccgcag cactgcagca ccccatcaac cagcagaaca 840
 tttccgggct gatatcagcc agcattctca tcggcgtgac ctcgctcgcc ccgctcaagt 900
 tcgagatgca agactcctgg gtctttactg ggcgaggcag cgacctgaac tggctcgcta 960
 ttcaaggcgg tttggcgtgc atccttaaac atgcgggaca atacgttcct gggagtatat 1020
 ggggcgtgcc attcagccag agtcacgaga tagagagtca actcttcgc tatgagatca 1080
 cgaagggcg ggagggtta cgtccggacc tagctgatct atgtggtatc accgatgaga 1140
 ctgacgagca gacaagtctg tattgggccc cgatcaaact gctatcacc tttatggaac 1200
 ttgaggtaa cgcacagatt gcatcgagc gcacgacctg gatgggaagg cttgaaccgt 1260
 cgttcgtgaa tctgtgtcga gagcgcgacc ctcgcgccct agtaatat tgcgtattgga 1320
 tggggctcat gtgttcgatg tcacagtggg ttccctgggt ggagggaagg ataaggaagg 1380
 agtgattgca tgtttgcatt tatttagaga gtcttgccga tccagttata cggccattct 1440
 tggagtttcc ggcggctgcg gcgggctata ccttgatctc cttatgatca atgttgatac 1500
 aggctttaac aagatatgag aaattgttga cgacgtgcct aattgacata ctagctagca 1560
 acagcttaga gaatagattc tgatcaccta ca 1592

<210> 1939
 <211> 2886
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1939

ttaacgttcc caatgccctc caccgtaata acgtgtttcc catcgacagc aaccagcggc 60
 gcaatgcagg cgttgatgga ggcattgtaa agcttcttgg tagtcggatt gatttgcgaa 120
 acgacctatc taatgtcagt gaaactgata gaacattatc caccaacaac ttacaaccgt 180
 gcaagcacca caaccacctt ctgcacaccc tagttttgtc cctgtcaagc caataccct 240
 caggtattcc agcaatgtga tttcggggtc aacagagtcc aagataacct tggtgccatt 300
 aagatagaag cgaatggat cgtccattc ttcagtgagt tgcaataacg aggccgcagc 360
 tttcggcggg gaagctgcct caagctccga ttgcgacggt tgtaataaga caccgggagc 420
 catgatggtg tcgtatatga ttgctccaga ataacgtacc tgaaatcaac atcaggaagg 480
 tggggagagg aagagtttaa tatggccgag tgcctgataa gtaaggtct agatggagcg 540

cggggatcgc cacagtccga tggaaaccgc cacactctga ggatcatccac ccaatcgtgg 600
 tcggcggaat gcggcggttg taatgtctac tccaaatagt actttcatga ataccacgtt 660
 atcagtctta cgctgtaggt atgttgacta tgcgttaaac attaaaaaca cctgtcttag 720
 acgtcctggt accttatcta ctccctgcctt gcagcctgag gctatagagt atttatcatg 780
 tgaccagaat atactccgca tccggcaact ggagcggaca tcacgatcga cgaaacaagc 840
 ttgaaagagg tcgtgggctt tcatcatgga gctgctgttc tcagtagcat gctcactgct 900
 ttctgatttc tcagtccaac ccccgtaatg gggtgattag tctcgatcat cgccccctcc 960
 gctccccctc tcatcccgtc cgatcaatca ctccctctaa gatcaaaatt ccgttttacgc 1020
 tttttttggg atcattccag tgtctgagcc ctatcatgat tgctcgacgc agtacatccc 1080
 tccctgcgat tggtttcttc gtgcgggtta tattagtgat tttctcgtct tccccaaagc 1140
 cggttccgga agccgtcagt gaagagatat cagcagccgc caaatatgtc ccgaaattcc 1200
 cttcgttgaa cgatctgcac ctgccgacct ttcagccgcc ggcgcataaa ccccccgagc 1260
 tacagcaaga cagttcaagc ggtgattcaa agtgggttcag tcaactgggaa tggctcaacc 1320
 ctttctcgtc ctccattacc cttgacgaga atcggtcctg actccctccg cttcccaatc 1380
 ggccgtatat atttacatac tataaccgga agaagggcag tgatagagag gaggagaatg 1440
 ccgatgcca actttctttt gcctggcgtc gtgcttggtta cgctcagggc ttccgacctg 1500
 tggttcttgg tcgtgcggag gctatggcca atccattata tgagtcaacg aagcaattgg 1560
 atttgagcct tgagctagaa gaggatcttc tcaaattggct tgcttggggg catatggggag 1620
 atggtctgct tgccgatcgg ctttgctttc caatggcgag atacgacgat gcaacactct 1680
 ctacactgcy tcgcggtgcy gattcagatt tcatcacccg attcgacaag atacataatg 1740
 ccctgctctt tgggaagaaa tctgttatta acgccgtcat tgaaaaggca agcaaggagt 1800
 ttgacaaggc aacaaaggct ttgacggact tgataccaga tgatctgtta aagtccgaac 1860
 agaccaactc tctagcactt tatgactcgg ctaccattgc ggcgtattac cacgagctta 1920
 ctgcagaggc tataccctct ccgtcgggtc gccggcatgc cctagtagat ctcatcaatt 1980
 cccatctgca gaatacattt gtgaactcgt tcccgggagg aatagccgtc ctgaaacctt 2040
 atgctgagca caccactgcy ttggttgaac cagccttaag acttgcaag gctcttggcc 2100
 aatgtccgca ctctgttgca ccacttctt gccctccaaa tctgcgaaac tgccacccgt 2160

gcaacacaca caaaccaatg aaaatcagcc aacccgccac atacaagaat accacccagg 2220
tcttcacaat aggcattcttg ccgcacccat acaccttcgt cagcttacta caaaactctt 2280
cggaagttac aacgcggtac attcgacgcg aaacttcccc cgatgcctgg ctcaaagagg 2340
tgaccggcga ccaaattgggc cgccaactag gcggtggggc gagggccgtc ttattcaaga 2400
aagtcgtcgc tgacgagcca gctatcggca catcgctatg gatgacggtc gagtcactcc 2460
ccgctgaggc cggccaggcc ctaccaagcg aactcttgga cgagtttgaa tggcagtttg 2520
gattccggat cccacgtgac agcaatgtag acgccaagaa cgaaggcgat gccaaaggaat 2580
caatgcagca tgccaacccg agcaaaaagg gtgttgagag agagtatacc atcatccaag 2640
gagctagggg tatgctaaag agaaagaccg actccaaccg ggtcaatatc cgcggtgtgg 2700
ccgaggcgtg gaacatggcc gatactgagg tctggcgatt tgtcaaggcg tacagagcgc 2760
gaagtatcgt cgaacgtaag aagtgggagg aggaagagaa gagcttcttt ggagcgcgtc 2820
cgaagatata agacactaga atgcggtata aaaacgctag tataggaaaa taatgacttg 2880
gcattt 2886

<210> 1940
<211> 1472
<212> DNA
<213> *Aspergillus nidulans*
<400> 1940

gatcgggtggg gcttaaattgg ctttactcct taagtcggcc ttaaaatgct agacttgtcc 60
ttcggctctgc caacgggccc gattaagtca tgtgaccgag tttcggcatt atttgatcag 120
tccgattcta tgatgtaaatt agacgatgat attaggcagt aagcggatca ggactattct 180
tcgctcctat ggtagttaga agtcagtgc atataattatt gaatctcggg tatttaggta 240
tgatccgcaa cgctgatcaa aatgaatgtt atatacttgg agcccgatgc ctataattcg 300
atttatacct gtcactggcg tcgagattcc aatctggctg actatattga acctaattgaa 360
ttgggtggta catcacatgc agggccaatg cttgccatga atcctatgtg tccttccgtc 420
aagttgttat tatcatcatc tgagctgtat aaacaaaagg aatgaagatc tcaagacgca 480
gtgaaacaag gtgactaggc attcaatcag tgtatctagg cccgtgtttg agttgctaca 540
gtgctacgta cggtagtggg gatttgtgtt ttgggatagg atggttctac tggcggtagg 600

gaaagaaatg gtcggttgac atggaaggct tgtatttcag tcgcactggt attactgcc 660
 tctctcgaac ctaaaccac atcattcttc gtcacgtag ttttcacgct cctcaaactt 720
 cataaaatct tctggagagg ctgcatctcc cattatgacg gaccaagcat ccttgaccaa 780
 gtcaatcgta gaatcatcga atgcaaggtc taggctaggc gcagggaacc ggatgacatt 840
 gtccaatacg acgttggcgg gacgggtagc acccttaacg gcccgtccaa gctgtgtgta 900
 acgaagtgc cacaataccc tcgcattggg cccggcgctg gacttcagta gtctatctat 960
 agcatccgcy atcaaggatt gcccttgac gccagcaata ctgacactgc cgtataaaac 1020
 acctattgca caaacatcag tacgcaatga cgtcgaaagt aaggcgagta atggataaag 1080
 aggtgtgcc ttatcagttc gtagaattct caacaatgca aattcaggca atgtagataa 1140
 gttttgggaa aagtcacat agaaaggcga ggcgcggaga taaaagaaa tgaagatggg 1200
 aacctactct gacctgtcgg aactcggca gtctcactag agtgcacgga tatatagacc 1260
 ggcgcgact cgtcagtaag cccgagtgc ggcgctggga atactacaac agccccgga 1320
 gggactggac caccctctgc cgtaacggga aacaggtcat caagaggcga tgacacaatc 1380
 gtaattgacc gtgagacttt gtcacaatca cacagggtgt ttggcgggga aggaagatcc 1440
 agtcggaacc gccacatatg tactgctgat ga 1472

<210> 1941
 <211> 2993
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1941

atttggacct ggtggggggtc gtgggggacgc cgcacatggt tccgcacatt atccatccaa 60
 ggggtgcgcg atgcactgtg ctccgtcaat ctgcaatggt ctggactccg agacagactc 120
 gcaacagccg gtctctcaac aagagcctca ccggcgcgac cgccgaacag ctgagcctct 180
 gaggttcggc cacttcgggt ccgaatgcag atcatccact agtgcgtgac acaatctgct 240
 taataagcaa gacatacatt aggcgcgttt taagggggag ctaatgtatc actatttatg 300
 ctgcgctctg cctgggtcca gttgccgaac tcgcccgcga tgggtccgta tttttccaat 360
 cgattggctg ctggagtgt atcaggtaca actattctta ttagacgctc ttgggagttc 420
 tctggaaaact ctatttcata gcctgtccat accctatcag ggcccatgtc caagctttgt 480

gaagtcacatc tctttgcgaa aatcaagcgt atatatacag atgtcagtcct atcaatgagg 540
 tacgtaaagt gaccattcta cctccgaaaa tacctactca ggtagatctt actccatgag 600
 gttcttcgac aagaatgagt ctgataaaaag cggtagacagaa cggatatgat tgacatgaaa 660
 gcaactgccca gccgagaagt attcagctga atctctggag ggtaaatatt ccggtcttcg 720
 cactgaaata tctctatcttg aattcagccg cgatactgcc catgtgccag cgtctcggca 780
 cccttcttat caatacctct atgccgcttg acgtaaagtg gctgggtaat tctgtgtata 840
 gctgcatgta tatggcccca atagtgggaa aatacagcgc taagtagcca caacgcgcag 900
 ttgagtcgct aggcggagga gagaaaaaga aatgttatgc gttaatgaac aatttgcgca 960
 tacaagtgac tgggactgca atgagctctt ttaggaaata atgaagaaat ccgccgcttc 1020
 gaatgcggtc ccatggctctt gtggtgcttg gtgagtgag atcgcgtagt gcattcgaag 1080
 ttggtttag agcgccagat aggcagggca gtagatggat gaaggatacc aaggggccag 1140
 tgtatcatat cgggttctca agcataatgc ttgaatttct gaaattttcg ccagttattc 1200
 agaatgaatg gatcatcccg gaacctgcc cctctccgga tgggtgtgcat gccaaatggg 1260
 ggatttagtg tggtcgtgat gtgcataccc tgcggctctt ctactaccag caaacgagg 1320
 ttgcgaagaa agaaaccgga atcggttcca gcgttgctgg aaggcaaggc cccgaccact 1380
 ctcattacag tcaagcaatt cgccaggaag atggcaaagc attttgcgaa ttgatctgga 1440
 ttcctatct tcaatctccg tctggtttat acctgggcac tccatgtagc ccgtcccctg 1500
 agaggtagct gcgtcgcac agttggaatc gccgattcga tttcagtga gtagtccagc 1560
 cgattccgcy taaatagcgt gggtcacgt ccgcttactt cttctgctct tgggtgtccag 1620
 cttgctagct tagtgttggg ggtagtttag gtcgaacctt gacaatggaa cgaagctcat 1680
 cttgcctatt tctgggtga cggacactgt cccattgccca gattcgggag attaggcagc 1740
 cgaagaatcc caatacacac caggtagat atctcccttg atctgcttcc atagcgatcg 1800
 aattgcgttg gggtttttagt taacagatgt ccaacagcag ttaatgagag attgtttcat 1860
 gtcccacggc cgtcgagctc tctcgcccag caaatggga ttgtacaagt ccctgtagtt 1920
 ttatagggag aaagctcaga gtgtcggagg gaggtgaagg gtgagagatg gcgccttgat 1980
 ttctgttcag aaattgtgcg actcgtaccg aggcagattg ctgaggcagt cagtccatct 2040
 tcagtccatt cagacgaagc tgtgctcca ggcattctgc gtccttagtg taggaacagg 2100

cccaagatgc tacttactga gtggacaaaa gcatgatttt gtaagatcat ttgtacacag 2160
 atgtgattca tagcggaatt gcctacagca cgtgagggcg caaactgaag gcgcacctga 2220
 gagagcttgc ggacctcgga gcgggtattt cctcttcacc acctttcggt ctttataacc 2280
 atccccacct ggtcactctt tactcatagt ctaattgact ctagcttttag cagttgctta 2340
 ttttattctt aaaggagagt ttggccctgt agacgagatc ccaattcgcg tctgctactc 2400
 caaatctcca gcctattcgt cgctcacaca gcctcgctat ctgacatcct cgggtcttgt 2460
 gcactgtgcc cgtctttcaa catgacggcg tctcccaatg gaacagacta cttggcatca 2520
 tacaccaagc tttcctcctg catctatgtt catgaaccag accactcagc cgacgacgtt 2580
 ggcgactatc cccggacaat cgtcattgca ttctggatga acgccttctc cagatcgcta 2640
 gccaaatata ttgttgata ccgacagctg gtcctcagag ccagaatcat ctttattcga 2700
 acgtcctctg cagaatttat tctgcgtccc acaaagcggg ccagtatgc tcgtcttgca 2760
 cctgctgttg aagacctgct agctcttcct gccgacagcc ctgtgcttat ccacatgttc 2820
 tcaaatggag gtgtatttgc cataacacac cttctcgaag cctatcaaca agccacaggg 2880
 catccgctcc gcatctcgtc cacaatcatt gatagtgcac ccggaacagc tacacttacc 2940
 gccagtttca aggcgttttc ttttgtgctt ccaggacat ggattctccg cct 2993

<210> 1942
 <211> 3877
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1942

tgtgtttctc atactccagc gtggactggt tttatccatg atatctaacg agacgatccg 60
 agataagttc taatacgtat acttgtgcca ctctactacg gggcctgatt tagacctggc 120
 tagcggttat ttttaggtta tgcgacgcag agtgccgccg agtcttctcc tgaaatatat 180
 ccaagtgaca agatgcccga ctgcaggcca caacttacca ttgaagatga aacgaaatag 240
 tccgagctac aacgttaccg aggtttctaa acccaggatg gaataaggaa gcttcgaatg 300
 gcgtaactct gggtgccatg ccttttctt ccataagtac gagctcttcc catcctggct 360
 ccagagttag gccctttgcg ttgctcgatt cgtcagcagt tatggcgaat tccacgtcca 420
 gcctgaagat atttccttac attcacgggt gcctaggcgg agtatattgt ctagcctgca 480

tatttacctt gacagcagat ggatgtcccg aacgtcaatc cgacaaacgc tttcggggcc 540
cctectcccg ctgccgtgca aactgacaat atggatacca ttgaagcgaa gactgtcctc 600
atatectcag aaaaaatata tccattgacc tatectgatt gtgatgatga tagagagcaa 660
gatattgacg acctcatcga cgaacttgag tctcaggatg gactccatga taatcctagt 720
cgaaagagta tggactctgg aagccggatt cctgggtatgg aggcgcagtt tgacaccgac 780
ataacgactg gtctcacttc tgtcgaagcg gcacagcgcc gcaaaaagta cggacccaac 840
cagttgaaag aggagaagga gaatatgtta aagaagttct tgtccttctt tgttggcccg 900
gttcaattcg tgatggaggt cagtaacaga gtcattttg cccgacttcc atcatcgctg 960
acgctgattg gtcatagggt gctgcaatcc tagctattgg gcttcgagac tgggtggact 1020
ttggcgtgat atgtgctctc cttcttctta acgccactgt tggcttcac caggaatacc 1080
aagcaggatc aatagtggag gaactcaaaa agtcgttagc tctcaaagct attgtgggtcc 1140
gcgacggtcg agtaactgac attgacgcca ctgaagttgt accgggtgat gttctgaaga 1200
tcgatgaggt attaccata ttgtggctga ttgaagacgg cgaaggctga ctctagcag 1260
ggcacgatcg ttcccgccga cggccgtgtt aagacgaacc atttactgca aattgaccaa 1320
tctcagttta ccggcgagtc tctagccgtt aacaaatgca agggcggaagt ttgctacgct 1380
tcactctgtg tgaagcgtgg ccatacgctat ctgcttgta cggctaccgg tgattacaca 1440
tttatgggaa agacagccgc cctgggtcaag tctgcgtcgt cgaattctgg ccattttaca 1500
gaggtactca accgcattgg tgctactctt cttgtgttgg ttgtactcac cttgatcgtc 1560
gtctgggtgt cgtctttcta ccgttcaaac gagaccgtta cgattctcga attcacactg 1620
gccatcacta tgattggagt acctgttggc ctgcccgccg tcgttaccac aacaatggct 1680
gtaggcgctg cctatcttgc caaacgacag gcaatcgta aaagactctc cgccatagaa 1740
tcgttggctg gggtagaggt tctctgctct gacaaaaccg gaaccctaac caagaacaaa 1800
ctaaccctct cagatcccta cacagtcgct ggctggatc ctaatgacct catgttgacc 1860
gcttgtttag cagcttcaag gaagctgaag ggcatggatg ctattgataa ggcattcatt 1920
aaagcacttc caaactatcc gcgcgctaaa gaggtctct ctcattacaa gattcagcaa 1980
tttcacccat ttgaccgggt ctccaaaaag gtcaccgccg tgggtgttat tccagaaggc 2040
caggagatca tctgcgttaa gggggcgctt ttgtgggttc tcaagacggt ttcggaggag 2100

cagcagatcc cagagagtgt cgagaaagga tattctgaca agatggacga gttcgcccag 2160
cgtggccttc ggtcccttgg tgttgctcgg aaacctgcgg gtggggaatg ggagattctt 2220
gggatagtgc catgctctga ccctccacgc gatgacactg cggcgaccat taatgaagcg 2280
aagacgctcg gactatcgat aaagatgctc actggggacg ctgtacccat tgcgcgcgag 2340
acttcacgtg agttaggggt gggaaccaac gtctataatt cggataaact cggctcttga 2400
ggcggcggtg acctgactgg gtctgaactt tacaattatg ttgaagccgc agatggattt 2460
gcggaggttt gggcccagca taagtataat gtcgtggata tcctgcagca acgaggatac 2520
ttggtggcaa tgacagggga tgggtgtaat gatgcacat cgctcaagaa ggctgatact 2580
ggaattgccg tcgaaggcgc atcagacgct gctcggctctg ctgctgatat cgttttcctc 2640
gcgcctggcc tatcagcgat tatcgacgct ctgaagactt cccgtcaaatt attccaccgc 2700
atgcatgcat atgtgatcta tcgcatcgcg ttatctctgc atctcgagat attccttggg 2760
ctctggattg cgataatgaa cgaaagcctg aacctgcagc ttgtggtctt cattgcaatt 2820
ttcgagaca ttgcaactct ggcaatagct tacgacaatg caccgtactc gaagacgccg 2880
gtgaagtgga atctcccaaa gttatggggc ctgtccgtca tactgggtat tgttctagcc 2940
gtggggacat ggattgcact gaccactatg atgaacgcgg gcgaacatgc cgggatcgta 3000
caaaattacg ggaaacgcga cgaagttctc ttccttgaga tatctctcac ggagaattgg 3060
ttaatattta tcaactagagc caatggcccc ttttggctct ctctgccgtc atggcagttg 3120
gcggcgcca tttttgttgt tgatctcggt gcaagtttct tttgctactt cggctgggtc 3180
gttgggtggac agacttcgat tgtcgccatt gttegtatct gggatatttc tctcggcgta 3240
ttctgcgtta tgggaggtgt ctacttctg ctgcagcgtt cccagacttt tgacgacatt 3300
atgcacttca actttctcca gaaaaggac tctgtatctc agcgtgttct tgatgatctt 3360
ggtaagcttc tccaaacagc ctttctaagg gtccgtgcta aatatgattc tagtcgtggc 3420
tttgcaacga cgatcagaac agcatgagca gagttcgaga acagccgaga gggaggacat 3480
aggattatgg aagatggaca aactccgtaa agaacgcgca cagtgttgat gatagatgag 3540
tactatgtat ggcgtattct attgttatgc atctcgtaca tcgagacctc gaaacttgat 3600
gataggaaca ctggcatctg taagtcaggg tactaaaata tagaatatcc gcactatgga 3660
actataatca ttaagcgcgc aatgttcatg tccataaatt gctcttccgc aacctgcttt 3720

gctcaataaa tgcttgacct cagcgacatg tactcgagca tgtactacac tgctcgtcac 3780
acgtcaacaa gcagttatag gtattgggtt gattatgact aaccgccaga cactccagcg 3840
ttcttgcggt ctcgtagccc gatcctatat tacatct 3877

<210> 1943
<211> 2380
<212> DNA
<213> *Aspergillus nidulans*

<400> 1943

acgccccgtg gcgtacatgg cacattccct ttttcggctg cgtgcgcgat tccgatctgt 60
gcaaagtatt cattttcacc cagccgaata cgtgggtgcat gctactacta cagccccgtct 120
atagatggaa tgttctaact tccgagggaa ttaaactgac agttttcctg ttggttggcc 180
gtcttcagat gaacatcgaa tttctgacag cgcacctgct ccgtcctttg tcgtctatca 240
agctagcggg agctgatcag cataatcgac tcttcacctt tcaaggtttg acttctgacc 300
ggcctatgag acgggcgaac cagatgtgag tctgtgacct atcacactgt caggttcgac 360
tgtcaacggt ttgacgtgt gacgaaatag cctactacta tggagcagat gctggggcta 420
agcacggaat atctgcccag cctccagaat gcgcccggcg cccgttttgc tcgatcgcg 480
ctgtcagccc aaaccaaccc ctcgattacc ataacttcca ttgttcaactg aactgtccac 540
tgaatgctcg tgggcgtcga gagatcgtgt tagatgttta gtaagaagaa aaagtgcagg 600
acaaaatcga tgctggaata taaagttttg gcacggctct gcgtatttcc cgcggccaat 660
ctcctcgga tcgggtgtgc ctttctgcaa aagtttggct gacggcatgt cgctcggcgc 720
cattttcctg cattctatgg agtacggagc aggctcagac acttctgact agtgcctact 780
tctactagga tatgggtcca gatcgtcgaa tcgtccagat gtcgacgctg cagcctccca 840
gtcagcaatg gatattaact cctgtgccga tcgtctgcct ccaacaagca acggcagtat 900
tagtctgcgc atcggaaggt gacttatgag atgcagactg cccgcgaacc gactaccaag 960
agcgcacgaa gtttccatct ccaccatata ttacaccgta tacagtatgc cataatggat 1020
ttccatgtgg ggggaggtca tggcactggg taacacgctt gtcagatctc gcggcgacaa 1080
cggcgcaagc tgtacgacct ggttggggct aagtccaaca gcacgcgttc atcacaactc 1140
gcaattctca caaatctgat atattcgagg attgtcaagc cttcaaagat gctcttccca 1200

ttccggccgag gtccagaata gcgtcagtga tagccttgga actcggacga ctaacctaag 1260
 atggccgacc atacatgcca ttatattaac agtaacaccg ggcgatctag ctctataact 1320
 ttctagtcctc tggactctgg cagctttcaa cccctttcat attgaacaaa gaataggcac 1380
 cggggaaaata gggttcgttc tacgacagca ctaatcgcta cgggaactgc gatagcatgt 1440
 gatcgtcgaa tcagagccac gactctactc cttttttcac acggagattc ccattcttcc 1500
 tacgccatag taaggagctg gcttctctgaa ccatccagag ccctcggagc atagtaatct 1560
 tgaatcagga cattggcatt ccgacggcat ggcgccagct gagtcggagc ttcttctgtc 1620
 tcccggacgc aaaaagtgc cagacagcat ggacctaggc aggcttcaca gtagtctcga 1680
 tctaacggtc tctccaaacg tgactggggc aattagactt ttgtgacttg tgagaaacgt 1740
 tttccgtcaa gatcttaccg aatcaaacgt tacacagata ctgattaggt tgagttccgg 1800
 cgccagaccc agtccatcac atcctacgta tctcgtagcc gccgggggtc cccgagtgtg 1860
 atcgatgcag cactttctcat gttggacgtg cgggtagtgg gtgaaaccta ggatagagac 1920
 tcaggcaatc gatcgtttgc aagctaggag actcggcagc cgcaccgtcc agacttaggt 1980
 gcacttaacc ttcgatgact gagcaaagct ttaccccact gcggcgatgc tgcccgtgtg 2040
 ccaaggaccc gtgccataag ccatctgaca ggtccagcta aacacctatg aattgacatg 2100
 gtttgatgtg atgaactcgg ggtgcgggtg cagcagtcct aacagggccg cgataatctc 2160
 tgattttctga ctctgctagc acattaccgc ccaggtcccg tccaaagaat agcacttctc 2220
 tccccataag gtgtgatgac ttttgagtat attttccctc aacaacatac gcgtattcaa 2280
 ttgagccgtc cgcttagtcg cccgcccggg tttggtctaa tggtgagaga caaagaaaag 2340
 aagtttgacc ttttcagccc attccttcca gagccccgcg 2380

<210> 1944
 <211> 4000
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1944

atcagccccg ggggtttgta ggtcgcgcga ggcggtcatc agcctaggac cgggcccgtcc 60
 ctgggatgca tacggtttcc ttggagcagc cgataataaa tcacgggttg tcgagaccgg 120
 agacttcgcg agtatcctgg ctgttgagga ccgcgcgacc ccggggggccc gcccatgaga 180

gacagatgat tccaggtacg gcgccgattc atcctctagc ccaatctctt caaaattccc 240
aatatctgta aacaccccat ccggactgga catgcgcgag gacgatcgat aagaggagga 300
cttggacgac ttggacccgg atagttcagg aggcgagttc ggtgcagtca gaacggccgc 360
catttcgtcg gtcaaccacg gtaggcgtgc tgtagttaaa tagttgaata gaatatggtg 420
tagtaaaata agcgatcaat cgcgtcggtg tagacaagaa gagtgcggac cggcagcaat 480
agaaaagaag gactagcggg gactcgatgg cccaaccac gctgtactaa tattccacaa 540
ggaggcacag ggccattaat ttaccagtca ataaccagga ctgatatcta gggcaggcca 600
gacagcggtg cacagtgcgt tatgacgcca gtggaacgaa aagtgaacag gggttcggtc 660
aacttaagag gtgagactcg agacggaaag ggaggagcga gtgggatggg ataggtagaa 720
gatgtgaagt agaaaagaag aaagaaagat cgacgcaagc gaaggaaggg cagttggagg 780
agttatcgac ggaagagcga gtgaaaaaag caaggaaaga cgaaaagagt gaagatatga 840
agctgggacg attccatcac cgactgcgtt ggaggcgcga attccaggtt ctctgccgaa 900
cgcagtcaaa aggggtctagt ccggccaccg atatgagcgc ctgaggcaga gattattgca 960
aatcgcccaa tggcgcttga gaaacgttgg tattcaggct tatatccggt ccagactcct 1020
catttcattc gctgcaagcg gcgatcaaca tcaaaccggt ttagggacaa ggcactgcgg 1080
agtcgcgacg tcttccgtcg tcgagatgaa ggagcgagcg gctgttccaa ggcacgccac 1140
caatgatcca caggtgtggc tttgaggttt gtcgtgaaat aaaagaccac caccgcaaca 1200
acagtaatga ggtctaaaat gtttacaagg tctaaaaggc ctaaagtgga agaattagc 1260
agcaaaattg tttgtttgtt gatattgata aagagattgc caccctctgt ctgctcgacc 1320
actgtggttg tcgtccgctt aaacctgac cgtgggaatg tctgctcaga ccacacactg 1380
accatggata ggtataatcc catatgatta tggttattgg aaggaccaca actggtgctc 1440
ttgggggaag accgagtcca tcccgccctg ctgtatggta aatgctacgc ttagataacc 1500
gacccttggt ctcccttcat tgagttggcc attccgccgg ccctgcaatg tctgcaatgc 1560
ctgcatagtc ggacattttt caattttaat ttctctcaag ctgtaaggag caaggtcaaa 1620
accgccactc tctatacgtc cgattccctt tctgcaccgc ttgtgccagc aaaacactgt 1680
tgccaacgct ctgccgtgct tccgccagcg tcccgccag ccaacgcagc acgcccgc 1740
actgtgtctg tttccgcccc aacacaaatt gaaacgccgc cccccctaaa tactgcagct 1800

gaggatgcgt gaccctgcac agaccatgcc ggccacggat cagtcggtat cccaactgcg 1860
ttgcatcgtg gattgtgcgg accacaacct cgggtcgagg tcgcgcccgg cccggcagtg 1920
accgagtgtg tcggtacatc ttcacgcggg ccgtgacaaa ggacttataa acgttcagta 1980
gtaccgcggg cagtgcgttg tgcgtcgagt ctaggtacat tgggtgcatg gattgcttta 2040
tcgatgcaag aactttccgg tagaaggacc gtccgggggt tcgcgtggag tcaatcgaca 2100
gggaatcgtc gagagcgaca ctgcgagaat ccgccccctc gagcattcga tcttgggtctc 2160
tgaagatttc cagagttcgc gtgtcgatga gactgccgca ataagggag agtggcgtgt 2220
caacaagtcg cgggatttgc gcccgtcta caaccgccg gaaattcact aggctcttcg 2280
ctgggttgac agaaatgcc taatctgggt gtctcggac catgactcga aggaaatcca 2340
ttgcgaggcc agaatccaaa gttaccagca ggaagtcgtc taacaaacga aggagcaggg 2400
cgtcgtccgt ttgtaagaaa ccaagcacgt cccgtccat ttcagcgtac agcaaactgc 2460
acaaaagact agacagcaca gaacctgtg ggataccttt gcgctgtcgg aaatacttct 2520
tgcctatctt gacgagattg ttccggatgt gctcgttgag aatgtcaagc aggccttcac 2580
cattgtactc cttctgcgcg attgtgtcga ccaagacggt gttccttcgt ccactacgc 2640
ttccattggc gatagcatcc gccaaattct ctggcctgcc aactgggcca actctttgga 2700
ggtactttga ccatgttctg cgctgctgcg gttttcgcag cggccacatg ttgtcaaatt 2760
cgcttgcaag tctcatttcc acatatttca tccaatggta gttttcctct gagaccagct 2820
tctcgaccag acgcactatc ttcgcctgcg gtatagtatc aaaacaggac tggatatcca 2880
gcttcacgaa atagagccgt tttcgtgat ccagcccct gctcatcaga gactctttga 2940
atctcttcag cctggaatgc atatctccaa cagagaacat gcttgaacca agcaggtcgt 3000
ttcgtcgccc tctctcataa ttcagcatgc tgtagacagg cgcgatggcc gaattcacgc 3060
tctgtgctgg gtgataccgg tttttcccag cgtatatact tctaaccaag gtccgccgtc 3120
tcagggttaag aattggacga attcccgtcg tcttcggcag cagccgtagg gagccgtatc 3180
ctatcgattt tttaccagac agtagtttct ccgccgttct tggtgccaac tcctcaaata 3240
tggaagccct aagatgcgcc aagggtgcg cagtaaggcg gcgccaaacg tcatgtcgaa 3300
aatagaataa gcgataccgg tggacttggt attcggtcac atagaaactt ccgcgtataa 3360
gtggaagaag tatggagtca aacaggtagt acaaaaattc atggaataac tctctgcgct 3420

tttgcaagtc agacgctgag atattgttct ctgacggagc ctgacgtaag ctctcaggct 3480
 ccagccaagg tatcagggtg atctgacatt ttagactaat attcgtacca agcaagagac 3540
 ggtgcgctaa cctttatccc ttcgcaaacc tcatgtagac tcagactttc aaatctacgc 3600
 atgcggtata atctatccac atggccgagg atcatcttct ggtgggtgat gccctgttca 3660
 ccaaccccgga agaactctaa aggtatcaaa tttcgaatga cggctcggca aaaagctgaa 3720
 acagacgctg cgggagtggc gtgatccgtc agattttctt tgggcttagt tgcacctgat 3780
 cccttgctga agcctttggc atatgacgtt gggcgagct cgcgttgcat gtcctgatgt 3840
 gcgagagatg gctgggttac caggcctctt gcgctcggag tagagggccc tctgtggttt 3900
 taagctttaa ctgtgtccca agttcccggg gccccgaaac aaatagaatt gcccttcttt 3960
 cctacctctc aagccgggca ccatccccgt ccgggccaat 4000

<210> 1945
 <211> 4406
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1945

atcgccccat cgtcggacga cagtgtatc gtcgtttttc ccagacctcg ttccttcagc 60
 catcctccat tctttctgca gtacagtttc cgataatcag ataccgataa ataggatatct 120
 tgataagcgg ctccatttgc ctgtcgctcg acgccgaaac gcgacaatcc gatcgcacac 180
 ttccccacgg ggctctgccg accaccgatc gcacggattc ctaagagctc atggcactct 240
 cctttcagac agaaattgtc gcatacacca tccaccccaa tatcttcgtc ctcgatcgat 300
 gagcgtgtct gataagagcc gaacatccgc aagtcgcctc aagggtatcg gctaaagctg 360
 gctacatact acaacaatac aagaacatag gagtacaaac acaggagacc ctgaaagcag 420
 tccaactcgg ctccaggatgg cctttgcggt gacgcccgtg gtcctctca gtcagggcac 480
 gcgacccgat acagaagtgg gatctgaaag cccggatgtc cctgaggcca acggtcctcc 540
 gcgcaaaaagg aagaggactc gcaaagtcca agtggaccgt aaattcgact gtcgttacga 600
 aggggtgtggc aagagctatt cgcgcgcgga acatctatac cgccatcaat taaaccgtat 660
 gtcctatgct ttctcccaac ccactagcat ggatactgat ccttggtctg cctagacgcc 720
 cccaagcaaa tctaccggtg cgattttccc gagtgtctacc gttccttcgt ccgacaagac 780

ctctgcgtcc gtcaccgcga acgtcacacc acccaaggct cgcagctgca gaaacgtgac 840
 cactttgcac aggctgcttc tacgagtacc ggcgggatcg cgaaatctca gatcgtccat 900
 actgcggtcc agttaccgca aaatgcacct cccgtcctat ctccgccaga ctctaaacga 960
 ggctcgacag gtccggatca acctatcgct gcgtcgagca ttcccgtttc ttccgccaga 1020
 tctaggggct tcaaccgggt cagctaccag cccgccgctc aacagcatgc tccgactgca 1080
 gaggttcctt actcccaacc atgcgattta ccgaacactc ctatcacgac cagcagattc 1140
 aattccccgc cactgcagcg tccgttgcaa gttgggtcca ataccgctca tgccctgaat 1200
 ggctcgcta ccaacgagct gggctcctgca cgatcggcag cgttgatga gccgctcgtc 1260
 tccaacaggt ctcaagatct cggggccagt tacgcggtat cagctgatct gaccgggtct 1320
 ttggttaagcc cgtccgcata cactgatcaa gcgggcttac aaatccctgt cgatggatac 1380
 tccgacatca acatggcgcc agtaacctca tcggcgctctg ctccgctcga tcaaacaaat 1440
 ggctaacc ttgactctat ggcggaatg gcagtaggag atatgcaatt tgacgggctc 1500
 aattcttggt tctatccggt ctttggcggt gaaagcaata gatctcctt ccatatgggc 1560
 gatgacttca cggcgtggct gttcaatgaa ccggtgctg ggtcatcgat ggctccgccg 1620
 gcaaatatgg tgcccggtt tatggacgag cagatgcaa accagtttt gatgagtgac 1680
 ccatcatagc gaaactttct gaacagtgtc atcccagctc atccgatgag tgtgaccagc 1740
 atccttgatc ccgggtcccc gcgggccatc atgtctgagg agaagcgtca ggagctgctt 1800
 gatctcatgt ccaccgggt caatgaggct gcatattcgg cagtggccaa gcgcaaggat 1860
 gccttgatgg acggtgatat ggacgaagac cgccacgtc ttagtttgc gaagatgcaa 1920
 acctacattg ggtcttactg gtatcacttc catgccagt tgccaatcct gcatcggccg 1980
 acctttgtag ctgataaagc gccgaatctg ctgctgctcg ccgtcatagc gattggggca 2040
 gcaacgctgg acagtattca cggacaggaa gtcaccgagg cagcatcgga gctagccgac 2100
 tttatcatgt ggcatttgcg gtgggagatt tttatggaag gagatttccg gccgccagcc 2160
 aaactctggg tctttcaagc gctgctgctc ttggaggtct atgagaagat gtactctact 2220
 cgtgcactcc acgagcgagc gcacatccac cagcagacca cgtaaacgtt gatgcggcgc 2280
 ggtacgtcct tgattggccg ccattcggtc gactctcctg caagcctgag agatgaccgg 2340
 cagcacgtc gaccacaggg tcaacgatga ctccggactt tgccgcagac gactcatggg 2400

cgcattggat caaaactgag gccactaggc gagttgcctt tgcggcattt gtcttagatt 2460
 ccacccacgc tacgatgttt ggacactctg cgaagatggc cgcgcatgaa cttcgtctac 2520
 cactgccgtg cgacgaggcc ttgtgggtctg ctactagtgc ttcagaagtg gctcgggtgc 2580
 aggcgagtct acatgccaac ggagtcaggc cggatgatgtt tctagacggg ctcaaaagga 2640
 cactcaacgg acagcgggtg cgaacaaacg cttttggaag aacaattctt atggctgggc 2700
 ttcttagcgt gagttggcat atgaatcagc gcgacctgca agtcagctct cttggggtcg 2760
 cacatgccct aggaggtcga gacaaatgga ggtctgctct actgcggggc ttcgacaact 2820
 ggcgacgcga ttttgacgag gcactacaac caggcatggc ctctaccct aacggatatt 2880
 gcggctcgga cgcgctcgac gaagacaacg tggttgagtc ccgtgacgtg ctgcacgggc 2940
 tggcccatat ggcttcgcac gttgatattc tagattgcca gatcttcgcc ggagctcgtc 3000
 gactgatggg acgtgctatc acccgcggg attacaacgc cgcacgcgag aagatggtcg 3060
 agcgtcgggc taccaaagca tccgcccgcg acgccacctt ttatgctctc aagttcctcg 3120
 ctgaatgtct tttggaccac caaggggccc attatgaagg agagttgtat tgcggtcggg 3180
 aagattacct tctgaatcga ccgtgggtga tttatgtggc tgccctcgta gtctggtgct 3240
 atggatacgc cttggaaggt ccgattgcgg gcgccccggc gctgtcaacg gtcgcggagc 3300
 agaggcaaga tatgcaggca ttcttgccgc gtgtgggagg ttgtcgggag ccgagcgacc 3360
 ttgagaccat gaaaggacga aatcagtgc ttggactatt gattattttg cgggatgggt 3420
 tcaccaacgc ccgatgggag ctattggctg aagctgcaaa cctgctgggc agttgcattg 3480
 ataaattgag ggaagtctct caataagata aaaactgata ctgtacacga tataccctga 3540
 gttcgcggtt gcacttgat atggctttgt tatgaatatg ggtatgaaca tggatatgga 3600
 caaggagtac ggagaatatg gcggatcatt gtttacctt ctactttacc tatttagggc 3660
 ccaccatcaa cggtttact agacataaaa caattgcata gatttatcgt catccatcta 3720
 ctacaagtag ctagacacct ttgcggctta attcttgctt gaaagctacg gctagcaaaag 3780
 cggagctcct ttggttacca caacaacgag ccagccgc cgccaatct ctctaacgctc 3840
 aaaaccatcc ctctctgca ttccaccaac agcctcagat tctcagacaa tttgtttttc 3900
 caaggttgag aaccaaattc agctacgcag tgaactttcg ttaccagaga cattccatag 3960
 ctttccaaaa cacacggaat attcaccatg gtacgttgcc tcatccgatc actgggtttct 4020

cttttatccc ctgcatggaa tgaagtgagg gacgatctgt attagctagg cagagcaccc 4080
tcgttgagaga accctttcta gccctgcacc gcgcctcttg ttttggctcg gttgttattg 4140
agctgttcag ctagctagcc tcaaattcag ccgtgggttg cgcacggcgg ttccgaccat 4200
cctatcccat ccctctcacc caaacaccct gactttcaat tcaaccctg catcaactcc 4260
aatatccatc acatcttacc ccgtttatcc ttctcattga aacaacttgt cttgtctgca 4320
aacaaaatgt ccaccgctc accagatctt caccacgagc aggcctcgac aaactacaag 4380
gaagccttct cgctcttcga caagcg 4406

<210> 1946
<211> 5512
<212> DNA
<213> Aspergillus nidulans
<400> 1946

tccggagaac gctgcttcta ccaccaagcc tactgttgca gtttcctgag aaccactga 60
gaaggtcgag ccagctgaga agtccaaagc gcctgaaacc ggctcagagt caaagcccc 120
accatccgaa gcgaaagcgc cagttgagga gaaaaaagc gaagagtggc ggtccaaaaa 180
tactgtccaa cagttgttaa aggatgcgga agccaccggc gttcctctca aagaactctt 240
agccgagcgc acttgccctg tacaagtgtt gctttcgcag cttcatatat cgggcgctct 300
ggatctcaac aatcatgctt tgttcaacct gtccaacctt aatcagcgtt ttgacatgaa 360
atgcacttcg gacgattatg aagacctcaa gcagccgatt gagctgaccg agcagcaccg 420
taaagcacta ctgcgcggag accagtgcgg ctgggctcgg attctccctc gctgaaacat 480
agatgcctta tcagcccccg cggttgcgtc ctccaccatt tatctcccga agaggaagac 540
cgctacctcg ccctagagaa gagcatctcc tggaccatcg actccttcca agaatacccc 600
gccatccccg tcaccgaacc ggatgccaca aaccgcggcg gcgtcgtgga cgcccttttc 660
gccacgcctg agaacttcaa cctctgctgg gttgacgaaa cttccactgg aggcatattcc 720
gcacaatctc ccatctccgt tcaactccacc actgaaggag gcaccctaac gtcaatccct 780
cccaacgttc tctccgccat ggaagcagac agcacacgca accacaactg ggcaatttcc 840
aacgccgccg agctcatgaa tgcaacagcg acgtcggctc gctcgtttgc tgccgccact 900
gcaaaacaca tgcttggtgc tgctggcgtg gttattggga atattcctga ccttgacgat 960

gttgtcggta tgacagatga ggagctgcgt tcgttcgcgg ttaagagcca gaaagaactt 1020
 gaggcgtcga ggaaggagct cgatgcaatt gacaagaagc tcggagcgtt ggtgaaaagg 1080
 aacaggaagc tcgcgcagca ggcttttagct acttagcgca cgtgctttgt ttgcatggta 1140
 tcacgaacct tacatttgta catttatgtc ttcagcgtgc acttggttgt attacttgta 1200
 catttgtttt cagttttaca gttttctctg tccttttaaa catcttagac atgatgccta 1260
 ttacgggata cttaccteta gactacctgg gacatatgat cgaataaaca tcatatcaca 1320
 accggtatat tatgcatatc acaatgtcta accttggcctt tgccgacgta aaatgtggaa 1380
 aacagtccgt gtaagtctat acgcaaacta agcacgacga cactgctacg agtccagtcc 1440
 tttgactcct ccttcaaacg agcgaaggtc atactcttcc ggatactcct ccagaattct 1500
 cctcaactcc ttcattctgt ccttcgcctc ctccgtaacc tcatcatata catcctcaa 1560
 cgcaaactga atagccggtt tcttcgcctc ctccgcctcc ccaaactctc tcagtacttc 1620
 ctttcgaata ctctccctag cctgcgcctc catatcctca ttccaaatcc cctcattttc 1680
 aagccacttc cggagcctga tgattggatt atctcttctc ttccaatcct caacttctac 1740
 gcgcgcacgg tacgcaaagc tatcgtcgga cgtgctatgg tgcgagacac ggtaagacat 1800
 cgctcaata agtaccggtt ttctctcttg agaaagggcc agagtctgag cagccttcat 1860
 agcctcgtaa acagcgaaga tatcatttcc gtcgacgcgg atcgtgtcga tcccatagcc 1920
 caccgcgcgg ctggcaattc cgtctccccg atactgctct aatgtggggc tagaaatggc 1980
 gtaccggtta ttctgacaga tgaagaccac tgggcaggat cttgtagcgg cgatattgag 2040
 accagcgtgg aagtcgcctt cactggcggc gccttcacca aaatagcatg cgacaatgcg 2100
 tgggtggcgtg tcgggattct gtagagcttg gagtttcagt gcgtaggcag cgctgagggc 2160
 ctgtggtatc tgggtcgcta ggggtggagga gattgtatgc tgggtcaatt tgtcagtgtg 2220
 aacttcatca aagggaggag ggatagaagt acggttttcg gatactcgca cccgtagtga 2280
 acaggcatat tccttctctg accgttatca ttcgcatcgg cgaagagctg gtcctgaag 2340
 ttcttttagcg caaagcctcg ctgctgaaaa acgccggttt cgcgatactg tgcaaagacg 2400
 acatcgccg gtgttagagc tgctgcggag ccaacgctga tgccttcttc accggctgag 2460
 accttctgag aatgtatctc atcagcaaaa actgcccttc taaggctagg aagaggtctc 2520
 gtaccatata aaagcttaat ctcccctgcc gttgtgcctc gaacatgatc acgtccataa 2580

tgctcactgt atatcgcata cccattaatg ctgaaaatag acttatagga atgtacaccc 2640
 aaaacccacc cggttaacata ttccataacc acgccaacgc ctcttcattc gaaacactga 2700
 gctcgctacg acttttatcg atcagcacac cgtcggaatc cataacgcgg tacgttggaa 2760
 tcccaggttt atccattggg ttgatgaagg ccatctccgt tgtgaatttg ctgttgactg 2820
 cgccgggaaa tcggactcta cacattgcat gatagttgat tagctttctc gacctactct 2880
 atattgtaga aggtggggac ttaccgatct gaccccgga cgtgggagag ggatgtgctc 2940
 catcgcttgt ggaggagag tgggtatgag gaccgaaagg gatgttgaag cggagatttg 3000
 agaagggaac agcgcacggc gtgcgctgac cgtactcggc ccggtagata tattagagga 3060
 gtcattggctg tggtctttaa atgatttgag tcctcaaaag aaaaggagtg ggaatgggag 3120
 gttttttgt acgattgaat tcccagact gaggcctgg gagagtgcgg agaagcgggt 3180
 ggcgtcggag gggtaaacgt cacggccgc cagtagcca agctccctta tcgactcggg 3240
 ccatttatat ctgggcatta ctgtatttg tttattata atagcctcgt cgggttgatc 3300
 tttcttaggg ttgaggacct aaaagtcaac tagctggttg ggccttgat agaaacagtt 3360
 actacgcgct ctctcagatg gactatcaaa ccaattata cacatatgac ttcgaaatga 3420
 catataaaga agccggcgac aggtagacat tcatggtgaa catgttccgt cgcttctctt 3480
 ctgcatatgc cgccggtcat catcgacaag attaggaggc aggtttgggt tatcgccacc 3540
 tggcttgggc acaggaaaat cgtccagaat gccggactct aacatctcgt acacactggg 3600
 gtgaattgct gcaccacatg gaatatccct cgaagctcca aaatttggtg ggagtcgtcg 3660
 cggaaccac ttacccttct ctagctcgag acgagttgcc aaggggagga cctctgttgt 3720
 gagagacgct attacggaag aacaggtgaa ctggaaaatt gggagacgaa cctaggatcc 3780
 accatagcat aacagacaca tgcgttccgc catgtccaaa gcgcagctta tcgtgcggct 3840
 tgtttgctt ctgtgctatt tgatacgtg cagtgccggg ctccatcc ctacataaag 3900
 agtgagtcgc aaccggttct atgttttcta cattttccga catgaattcc agcttgctgt 3960
 ccgagccagg caggtttaac acttctgtg tcatccagtg aagagcgata tctgatagga 4020
 ggtgcttctg tcccttgctt agaggccacc cgccggcgac atcgccatgg tttccagcaa 4080
 accaaaactt tttcaaatct atcgagtctt tgccttttg gtcaatatga aataacgcag 4140
 gtttgaactt tagccggcgc tcgtgtatcg aaacagcgtg acgaatatgc cgtgccgaag 4200

ggctggcgat gtaccggtat gacttgcgga agaacggtat ctcgaaactga ccaacgctgt 4260
 ttacgcagtc aaaaagaccg aggaaatgca cgccgacgtc tggacggcaa aatgtcgtct 4320
 tgaacttatg catataccgc gctaactcgc ggtcttcttc agtctgtggc acgttcccc 4380
 gagagctctg atagcgactg aacgtgtccc aggcgatgg gaccatttct tcattaccgc 4440
 gtgagaggag gccaatgtta tggatcatct cggctaggaa tcgggctgtg tatgcgccgc 4500
 gcgagaaaacc gaagatatag atatggtcgc cagtggagta atagcgcatg atgaacctgt 4560
 agccccgat aaggtggctg gcaaacgata cgctattcc ttgatctagc agggcgctga 4620
 cgcgcgctct gaatctcgtc caccagctaa acccgctggc ctggcgcgag gaacctctaa 4680
 cataggtaa ggtcccaatc ccggctgtat gcgcactagt tagtttttcc gttttgaagt 4740
 ggtattggtg gtcagcttac gctgataata ggcatattgg ccgggtttat gccgctcaag 4800
 cgactcatag attttgacga tttttgtgtc ctctcgggtt cccatgtact gattccccgt 4860
 gccatcgaag caaagaacaa gccgacgagg ctgcggtacc gaatcatggg ccgactcggg 4920
 accgccgaac gggccattat ggggcggagg aggcataatt gactcgcttg acgctgggtc 4980
 caaagtatcc ctccaggttc gaccgagtc aaagtgaatt tataacttca cggactgagg 5040
 tgagatagca aggtgtcata gcagctgggc tgggctgagc cgaacacat gtaagatatt 5100
 gcgtcttgtc cctgcgggct ctatccacca cgaagcctga ttcgaatggc gatcgtcggc 5160
 tgcccagacc agccgttctt tcgtggcatg gtggctggag gattagtggg cgtgaacagt 5220
 tcatcaagcg gtcagataaa tgggtccaag gtgatcatgt atgctaattg caactctgcc 5280
 catcctttgg acctttcacg cgggtttaat tcgtggaag attcagaatt gcagtttgag 5340
 gcctttgccg tgggtgcagga gtgcagaaag ttcgcagatc ttggctcaag gtcgagctct 5400
 cgcgaaacatc agcgacttga taggcgagaa ttgtgccac ctgaccgaga gtacaaagat 5460
 cagcattcag atcggtcagt aagctgcaaa acaccctttg acgccctacc tc 5512

<210> 1947
 <211> 3818
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1947

attgaatatt taaataaaga tggatatgaga aaattataat taaaaaaata tatcataata 60

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|------|
| tgagatatat | taatatatat | atagataagt | gatgaatagt | agtagaattg | aaatagaaaa | 120 |
| tacaaaaaat | aaaagtataa | aataattaga | aaaatataac | agaatataga | taatgaaata | 180 |
| aaattagatt | ataacatcca | ataatataag | ataacacaaa | aatagtaaca | agtaggtaca | 240 |
| taataataac | gagaaaagag | tggtacttat | aaaaaataaa | tcaaacagcc | aatttatggt | 300 |
| aataacaaag | cacaataaat | taatattccc | cacagaatat | accactatt | tttaaaatag | 360 |
| aaaaatttat | aaaatgtctt | aactatgctg | ttatacatat | tatatgttaa | tattaaatga | 420 |
| aagtaggata | caagactcgt | ctattttaaca | agttagtaac | agtgaactag | gctcccaaag | 480 |
| aatcgtgcaa | ggaatatgca | aagtcgtgtc | tcttttagcgc | atgctgaact | ggtaaaactc | 540 |
| cctatccata | cgtcacgata | tgtatactcc | agccggggta | tgtacagtag | cgcatacgct | 600 |
| aatccagggt | gggcccgtct | ggaggagcat | cccaacctct | ccgtcgataa | taataggtaa | 660 |
| gactcggggt | tagtgacctc | atccaaagac | tctagaaggc | gtcttgctgt | tgatagaagc | 720 |
| cgttgatttg | gcagcgagga | tggaaatgtc | tcagtcgact | tggtacgct | gcccagggtc | 780 |
| ccaggcgcag | gtgccaaacc | cgcctttcct | ctctggcctc | aacagtaatt | tccggtttcc | 840 |
| ttcattcatc | cgtccaccca | tccagtcttc | aaggacaggg | atcaactcca | tctctcagag | 900 |
| ttctgctagt | ctcatttcag | ccaaagttct | gccacccgac | gttcgcaa | atgtgtctt | 960 |
| tttaatctat | tttgacagct | cggttcagcc | agggtgccat | tgacgaatgc | gatgtcgagc | 1020 |
| aggtggcaca | acattatcag | cctaattgtg | cgatacgtct | tcaggccttc | accgtctgct | 1080 |
| ccaactgata | gcccatagat | gtcgtgagca | tatctatcgt | atgtacatgt | acgggaggcg | 1140 |
| gctgctgttg | tgtttcggac | cagccgatgc | ttcgattcgg | ccacgatatt | taaatccaag | 1200 |
| tggctgggag | aaccatggtg | ccgtcttata | gcagtcaggc | catcctcgcg | cgccccccgc | 1260 |
| caatgccacc | gttgtccagg | gtccttgaat | gctcccttat | ccacataacg | agcccgaacc | 1320 |
| ggacaatggc | tggaaacttg | tctatcagac | ccagccccca | atgcactgtc | ggactctacg | 1380 |
| tccgcactag | ggctttgatt | gtccagttat | tgtttctttc | agggtccact | cgatgttgaa | 1440 |
| gttgctgcc | tagtcacgac | ggggaagacc | tagactacca | acaaaggctg | ccattatggt | 1500 |
| gagagcgaac | ttaccgttaa | tgatgacaag | gcattgacgg | catgattgca | gttaaccgaa | 1560 |
| atgacgcata | ggcattgtct | tccctaccca | tgccggggca | gggtcaaagg | ataagaagga | 1620 |
| catggcttgc | catcgcttct | aggatgtttt | ctcttcgagc | gagcttctct | ccacaagagc | 1680 |

ctctgcaact cacggtcggt tctccggtgt ttcattgctg cactagtagt gcttgttctt 1740
 gatattgctc tttctttatc ttctcaaac tataatatcc gcacgctctt gacagtctct 1800
 cgttcataacc tgttccgcaa tgaggggtcaa ccctttgctc ctggccacca ccctgggtgt 1860
 catgagcggg gtccttgctg cacctgtccc gccctagttc agcgtgggtg agagttatct 1920
 gggtcctttg gcggtgacca tgactgggac tggggccacg gtggaggtgg tcacgggtgg 1980
 cacggcggtc acggcgggtca tggcgggtcat gacgatgatg acgatgatga tcacgactgg 2040
 gagcctccca caaccactcc ctgtgagaca gagacggaaa ctctccgcc agagaccact 2100
 ccatgcgaga cggaaactga gacgcctcct ccagagacca ctccatgtga gactgaaacg 2160
 gagactcctt caacggagtc tcctccgcc gagaccactc catgcgagac agagacacct 2220
 cctccttcaa ctgagactcc tcctccagag accactccat gcgagacaga gacgcctcct 2280
 ccttcaactg agactcctcc tcagagacc actccatgtg agactgaaac ggagactcct 2340
 ccttcgaccg aaactcctcc acctgagact actccatgcg agacagagac gcctcctcct 2400
 tcaactgaga ctctccccc agagacaact ccatgcgaga cagagacgcc tcctccttcc 2460
 acagaaacac cccctccaga gaccactcca tgtgagacgg aaacagagac gcctccacca 2520
 gagaccgaaa ctctccacc tgagactacc ccatgtgaga cggaaacgga gacgcctccc 2580
 ccagagaccg aaactcctcc ggaggaaact ccggccccgg ctccccgag taccagctcc 2640
 tggaccacat ctacatctgt cacgattcct cctgatgaga caaccacttc gattcccacc 2700
 ggaacatcac ctgagcagcc tacttcaact ggcacaaccc cagctgctcc ggtctttact 2760
 ggtgccgcta gtgtggaccg ttttggtctc cctctcgctg gtgtgatggc cattgctgca 2820
 attgttcttg ctttctgatg aattgataat aattggggga aataatgaca ttaggggttaa 2880
 gttacgttca tggtttatca ttaatttatg taatgtgcta tgttttagtag ctagtctagt 2940
 atagagcctt ccaggtctg tttgaactta attactttct tttagatagc ctataatcaa 3000
 gattccaaca gctgagtgac aaaagtagtc attcgtggtc tctgacacag ccacagtatt 3060
 atatagttca tcggctgtgg ctgaaactgt ccacttatct tatctatccc gtcaaaggac 3120
 cgacctcag tactgagtgg cgcggtgagc caactacgcc acaacgattt tccgcggcag 3180
 ttccaacctt ccttcggttt catttttgtg aactatctca aacaatttga gggttgtgtg 3240
 tcaccctcgg agctactaca cagacactac tatacacgga ctcatcgatc tgattctcct 3300

ttccgcctgt gtcactccta acatcacagc aaaatggatg accttcaatc actcgaacac 3360
 ctctccctca tatcgcgcat aacaaacgag cttcaaaatc acctgggagt aagcgataaa 3420
 gttctcgccg agtacatcat agagcaacat ttaaaatggt cttcgtttgc cgaattcaag 3480
 agcgcgctag aggcgatggg aggtgacctt ttcccgatga gtttaatgga aagcgtggat 3540
 cgattagtgc ttacgatgca tccgagatat aaaaacaaaa ataagaaaga caggggtgat 3600
 gaacacgttg aaaatggggc aagcgatgat atggatgcgt taaatgcctt ggagaagaag 3660
 gcgcgtgtct tcaagggctt ggcggttccg gaccaggagc cgggatgggc ggaggaggag 3720
 tatatggagg ttgggaataa gaacggattg ggagttgatg agcacgatgc gaaggatagt 3780
 gcgatggatg atacattcgc gatgctggag gggttggc 3818

<210> 1948
 <211> 1363
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1948
 ctttgcctgt ttgcagaaat ggcgatgatg gttcccatga tagagtgatt ttgtatgccc 60
 agtgcgtgat cgcaacccat ggagctggcg tagatcacct cggctgctct gttcagatcg 120
 caatttgtcc gtccctctatt ctaaattctga gcagaatcct tacttttgag gccacctaat 180
 tagttgagac cagctgccag gtgcgctcgg ccgagttgca gtgcagtgca ccatctcgtc 240
 catcacgcca tcccggccca ctttgatgct atacaagtac aaataccggc gccgcatgcc 300
 cgcggggtac gaaagctatg agcgcatgag attgcgtttc caagaaagggt gggggagggg 360
 tcctataagt agcaggcgctc gcgcggagtc gcgagcgatg cgggattgtt gttgatacta 420
 tacaataagt atatagattc aattgagaaa ggcaccaagc aggcctatct accacacaac 480
 gcaatatgct tacacagcag caacagccg accgaccgag caagtcgctc attctcaatg 540
 cctttgttga gatgtgtatt gtctccctac tttgccttcc tcggcagaat gggccaattc 600
 catgctaacg gcttacaggc agtggccacc aatcgccagg tctctgggta cccccgaag 660
 acgaatccca tcgctttaat gatatcgacc actggatcga gctcgcgag ctgcttgagt 720
 ccgcgaagtt ccacggcatc tttattgctg atgttctcgg tagctcacct gatgcaccac 780
 gccaccact tactcaccac tcgtccaatc ccctttcacc attgaaaaaa tgaataataa 840

gctaatacatt gtggcggcaa acaggcgggtt acgacgtcta caaagggcct cgcaatctcg 900
aaccggccat cacatccggg ggcagtggtc ccgtgaatga gccgttggca gtcgtgccgg 960
ccatggcggc cgcgacaaag aatatcggat ttggggtaac agtgacgacg acgtacgagc 1020
agccgtatca tctggcgagg cggttgtcaa cgggtggacca tttgaccaag gggcggatatg 1080
ttctcccttg aacctggatg tgggagcgtg ctgatgctga tcgtgtactg caggatcgga 1140
tggaatgtaa gtgctatcga tctacctact tacatattca gcaaccctgc tggggaagat 1200
aaggcccata ctgactagat agattgtcac cggctatctt gactcagcag cacgaaacct 1260
cggtcacgca gagcagccgc aggtatgtct tcttcgtctc aataccagaa aacaccagtt 1320
ctgagaaatg ccagcacgat gaccgctacg ccattgcaga aga 1363

<210> 1949
<211> 1415
<212> DNA
<213> *Aspergillus nidulans*

<400> 1949
ttgatacact cctccaacca cccgtcatca ctatgtctgt ctcgtttacg cggtcctttc 60
ctagggcctt cataagggtca tatggcaccg tccagtcgtc gccacggcc gcttcctttg 120
cgagcagaat cccccgggt ctccaggagg ctgttgacgc cactgccccg cgcaccaatt 180
ggactcgcga tgaagtccag cagatttacg agaccccggt gaatcaatta acctacgctg 240
ctgtatgttt ccgatttgac cgctgcttat aaattattct gtaacgcgga tatttgaaatg 300
aattgttcgt tggaccgaat gttgactcat gctgaatagg ccgctgtcca ccgccgcttt 360
catgaccctg ccgcaatcca aatgtgcacg ttgatgaaca tcaagaccg tggatgcagt 420
gaagattgct cctactgtgc acagtcttct cggtagacga ctggcctcaa ggccacaaaa 480
atgagccccg tcgacgacgt cctcgagaag gcgaggattg ccaaagcgaa cgggagcacg 540
cgtttctgta tgggagcggc gtggcgtgat atgcggggtc gtaagacgag tttgaagaat 600
gtcaagcaga tggatatctg cgttcgggaa atgggaatgg aagtctgctg cactactaggc 660
atgattgatg ctgatcaggc taaggagctg aaagatgccg gcctgacagc ctacaaccac 720
aacctcgata cttcgcgcga attctacccc acaatcatca caaccgatac gtacgacgaa 780
cgactaaaga ccttgtctca tgtccgtgat gcgggcatta acgtctgctc tgggtggtatt 840

ctaggtcttg gtgaggctga ctctgaccgc atcggcctca tccacacggt ttcgtcactt 900
 ccctcgcacc cggagttctt tcccgtcaac gccttggttc caatcaaggg taccctgttg 960
 ggtgacagga aaatgatctc ttctgataag ctctccgca ctgtcgcgac tgcacggatc 1020
 gtccttcccg caaccatcgt ccgcctcgcc gccggccgca tttctctcac agaggagcag 1080
 caggttgctt gcttcatggc tgggtgaaaac gctgtcttca ctggagagaa gatgttgact 1140
 actgactgca acggctggga cgaggaccgc gccatgtttg accgatgggg cttctacccc 1200
 atgcgcagct ttgagaaaaga gactaacgct gccacccccc agcagcatgt tgactctgtt 1260
 gtcacagagt ccgagaagaa caccctgctg ccggccgcag aagccctatg atagggctct 1320
 aaaactaccc ccccccccca gcctgatacg cttttctccc tgtccgtgat tggtagggaa 1380
 gcgctagagt cctgctagtc tcagtacaac tacat 1415

<210> 1950
 <211> 1053
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1950

gaagggacaa ggcgctaagg gccggggcaa acaaaatgca gctgtgcgga ccaaaatcca 60
 atacggtaac gacgaagtaa cgacgaatgc gggagtcaga tacgccattc agcagcgtca 120
 ataaagttaa aaaaaaggtt tataagttag ggaaaatgcc agaaatgaca gaaatgacaa 180
 aggaaagact cgacgggaat gggaaatgaa gggattaaag tgagggagaa atataaaaca 240
 ggacaaggga ctgtagggaa gagaaggatg ggagggaaag agaggggaag taataagaga 300
 ataagtatag gaagtgatgc cagttggaca acgagacgag aacgctcgtt gggcggggga 360
 cgaagaggaa aggaaggga ggggagagcg cgacgaggag cagaagacga gtgctggagc 420
 ctgagaagct aggcagggca ccgaggcagg gctgatgggg gctgaagcat cgacattagt 480
 acactaacta gtctatgggg aatgggccat ttaatcgatc tgatacacag gaaatacgca 540
 acaagacatg aaacaaggaa gcagttcata gcaatcagcg ttatatggca gtctaaacag 600
 tctaacatga tctcaggtgc agctaaacaa tggaacaaa ataaggttca cggttactgg 660
 gcgtcaatcc atgctggacg caaagcctga aagcctgaag acgcgagtca ggctccaggt 720
 ttgcggatcg agatgatcac gtggtctatg atcccgtgt gtggtctccc aggtctcctt 780

ttgcttggtc ttttagtacc ccttaagtaa ggtttggttt ggtttggttt ggttttatta 840
 ttttaacgtca ctcggcggat cacggggccc acgtgatctg cggcctccca gggggcatct 900
 ggacgtgcta cctaaacaga actgcctagg aactagctag atacaggttt gaagcagcaa 960
 ctatggacaa tataatgttg aaataagcgg aggaagcacc cgcgctgccc tggccaggtc 1020
 ttgcgaggca gatgccggtt ttgactacct ata 1053

<210> 1951
 <211> 4469
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1951

gggggcggcc ctcgtgttag atagaatcct ggaccctgtg aaatgttgtg ctcgcgacgc 60
 acgaactgaa acacgggggg agctttttaa acaggattgg ggttgtggca acatacctgg 120
 tccagatggc gctggttggc gatactatac gcctctgctg cgttcagact agcacgagcg 180
 ctggcgagcg atggggcgta tgagacgcta tgggacgagg attgctggag gggcggatgc 240
 taggagagcg gcagctcctc gtccgccttg agcttcttgc tcttcggggg cgtgacggtc 300
 ttgtagaagg attcgagtg gcgtttggcc atgactgac tgtatacttg agatactgac 360
 cagtaagagt tcgagcgatc atcgtcggtc taggtgtctg agctgtgaat gttgatggat 420
 gatgtcactg caacgtcctc gaaattcgtg ctagaccaag aattatctga aatatctcga 480
 gtttgattct atgcatgttt tggactcagg ggccgaagtg actgttgta gtgtcagcta 540
 tatatagttt atataggttg aggctagaag ctggcagttg gaagcgaaac ctaacagcct 600
 gtgcacaata tgggcataca tagcaggcac atgggttatg acatttatga cttttatgat 660
 cgttgcttac catttatgca ggcattctcc atcgaagtga accacggatt ggtagccggc 720
 tctcacacca ttctattacc cgtatgaaca caacgattcc cctagtctgt acctctagtt 780
 cgtacctcta gttcgatgcc tttagtgttt cagggttgaga ttcagtaagc taaaatatca 840
 gctgaggtta agcagtcagc actactcagc actgccgcat atcggctacc gcaatgttgg 900
 atggcatcag cgacaatgag tttcgcagct gcccgtcagt ttggtaacga gtatacattg 960
 ctgggtgtcg tataagcatc acgggtcgta tgtaagatc gtcgcttgac ctgatatgaa 1020
 acagattgtg ggcaattcag agcgtggctg ttcgttgggc gagaccacgt gcaatgaggc 1080

tgaatcggtc ctttctggga actcccactg tggccagcac caactccact tcattctctc 1140
tcaatcatcg cccactccag gaacttttct tttctggcgc cttgtcctgt cttgtttccg 1200
gtgtttatct ttgatcgatc gtattctttt ctttatcttc ttcttgtccc tcgctctgtc 1260
ggggtttctg ccaatccgtt tatctgccgc cctattgtta agacatgagc cagcctgttc 1320
ccgaccggat cccccagaat tgacgggcgc actcaccgcg ccctctctct cccgaacctc 1380
accctccatc tcgatgttcg cttcccacca tggcgaacta tcacaatggc aaccgcctt 1440
acggccagtc gggaaaccag ccgcaactat atgcctacac ccctccgtcg accgaccgcg 1500
cgcttcgacg tatgcccagc tacagtggcg gggacgactc cagtctcttc gctccccaat 1560
ccagccagtc gagagttgcg gagagccacc gctatccgaa tcgtgcgagc gtgggcgagt 1620
attcagggtc gtttggccag cgcgataact acgccgatcc cagatatgcc catcttccct 1680
cggcagcttc gccgcgggcc cgcgcccagt ccagtcgag ctatcaatac cagtacggct 1740
cactaggacc gatgtcgctt acacagccct cgtacaatcc ccagcagtat gccgcgcccc 1800
cgacgacgtc acaacagcat accgggtaca gccggttgtc gtataacctc tcgaattcgt 1860
acggcaacgg taacaacaat atatgcccc ctcacagcc gtacaacctc gccgcttacc 1920
aagcggccag tcttgaaaat cttgggtctc ccacaatcca gcgccagtcg agcatgcttt 1980
tcgctcaaac gccgtctctt cccaacctgt atggatcgcc gcactcttcc ttacctccgc 2040
cgctccacc ccgtggccct gaccatccct acggcgggcg accctcagtg gcatactcca 2100
gcacatcacc tggagctcag tatggatttt cacaacactc atccaccgct tcgacctata 2160
gtcttgctc tcccaccacg ccgggcacag cctacgcgtc cggcagcgga tctctgtcca 2220
gcatgacatc gttcaactcg cggccgtacc gcggagttcc gattccatcg cacatcttcc 2280
atccgtctcg ctttccgat cctagccgga cgcgctccgt agacgaggag ccgcctgagc 2340
ctccagcgca ctttcttctg ggcgatactt acgacaagtc atatggtgag gtgcgcatac 2400
cagcgcgatc ctttccgacg ccgcccgtac accagcccca gtcgccgctg tcgccccaaa 2460
gaacggacac actgacgcga catccccagg cgcggccgct tcccgggccc ccagtggaga 2520
ctgaatatgg gcatatgaac ggcacagcac agcccgtga ccatacccct ggttatgatg 2580
acttggctcg agaagtcgac gccgctatcc cagacaaaca atgggcctct taccagattg 2640
ataggccact ccatattgac gggcattccc aggattctgt tgaccggctg aacttaccgg 2700

actcgcgcca gccgtcttca gattcgggta tcgcccattct ttcccctgat gagagacaca 2760
 cacatacaaa cggaagtatg gccacaggca cctggcagta tgtgaactac gatgcctaca 2820
 gcgatgagag cgaagctgaa gccgaggcgg ggctggcaat gctgcggatg gccgatgagg 2880
 aggagcgggc ccaggccgag cggttgcagg agcgggagcg tcgggaaacg aatgcctcga 2940
 cgaccagttc gcttgcaaaa cgcccgtcag ttacggctgc atcgccgatc caagccaccc 3000
 gtgcagattg gtatcccacc catagtggaa ataattcgct aggacattct ccgtacgatg 3060
 atactgctct aggcgcaccc ccgtacggca atgaagccga ctattctggc catcatcagg 3120
 ttgcgacttc gggctcccgg cacagctcca atgcttcacg cgaggatcgg gcggagtact 3180
 ccgatgaata tgactatccc ccattgaag acgattacgc gtttcatccg ttccctcagc 3240
 tgccttcaac cgcacgagtt gacgccggag gcacaggcgg tctatcggag ccagcgcgat 3300
 ataaccgccg gatgagtttt gattatgggtg aggaaaccga tggctcctta ccgcatcgca 3360
 ggcaatcgca ccactcagga agtgaagggtt cttttgaaga acctggggat ctgttcttcc 3420
 atcctggaat gcgaccactt cctccacctc cggaggagcc tgccgataac gcgaaactac 3480
 taccgcacct gctgccagcc ggcacatacc gacaattgga gccggactat tcatccccat 3540
 atgttccggc tccttctcca gatgtgtacg caacggccgc acccagccct acccaattct 3600
 cgcggtctac atctttgacg agtcatccca ttgcgcctcg tgctgaccct cctatcagat 3660
 ccaagaccga tgcagataag ttaaaataca agcagcaaca ggagatgctg ctgcggcagg 3720
 gagccctgaa gcttgattca cctatggatg ctggggccgc tgcaattccc ctcgatctac 3780
 ctgtaatccc cgccggctgc cgcaagaagt tccatccgtc gaaactgtca tccgaggatt 3840
 tccgacgttg cgctgaacca tgggcgctca gcgctgttct aacctggatc cgggatctat 3900
 ctgaagagga gaatgacctg aaaacccacg ccgtagtcga tgctatcgtc gccttggtta 3960
 ctcaaaaagt tccgacgatg aatattgccg atgctgagac ccttgccggc cgagtcgtgg 4020
 agaacatggt tgaccaagga gctctcatta aggacgagga atgggtcaag ttcggcaatg 4080
 gacagatttc tgggtgtactg tttcagatta cgggcaccgg ctgctactcg cctgtgttac 4140
 atgagcaaga gacggatgcc gaagttgttg gacgctgcta ctcgcatcac tgcattcgga 4200
 cgctaaggaa ggtgaatctt agggcgcagg acatggagcc gcagaagaag gcggaggatt 4260
 gggtgacatt ctacaaagtt tcaaaagaag tattggaaaa gcaccctaag aaagagatcg 4320

accggcagaa caatctgcac gagattgtca ctaccgaaga ttctttcatc agccagcttg 4380
 atgttttgcg agactgctat cgcgatcgac tggcaaattc tgaaccctcc atcatcccg 4440
 cgaaacgcgc aacgaagttc ctcaatgac 4469

<210> 1952
 <211> 3784
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1952

gacgaaccgg cttctggagc tactaggctc caaagggttc acgcgggata tgtgcgagca 60
 gctgaagcgg agtaacatca ctgagctctg cgggcaggga cacctctacc gggtgccgct 120
 gctacatcac gccaggatgg acagccgcct ggctctacaa cacagcctgg agtcgtggaa 180
 aatgcccaga ctaagaacct gaatggctcc actgagaaca atgacgacga cgatgaaggt 240
 gttttggatg ttgcggctat tgtagcggc aacaccagcg agttccttgc cgcgcgagg 300
 aaagagaagg gaaataaaaa aggcgctgat cagggcgcg aacctgttcg tcttcccaac 360
 tctaagaagg agaaggccac gttccagtac caggagttcg tcaagttaga gccagagaag 420
 catgcgccta gcggctcttc acgcttcac cgccagacta gggatattga agttggcggt 480
 gagcggttct ttgctgcaac accgaagcaa gatactggag acagattgtc tagcagtatt 540
 cttgaggata tagcaactca gatccatcac accatcctgg ccgtgccgga tgcgacaaag 600
 cgcagtgagc tatgggatcc actgatcggt gttggtaacg gtagtaaagt aaaagggttag 660
 tctttctctc tcgaagcatt cctcgctcca gtttatttac taaatattgc aggcttcact 720
 caagccctca tcagcacaat cactcagaag tttgtcctc cgccgtccgg cacaatcttt 780
 acttcagaaa ttccatccaa cttctccact ccccttccca ccggcggaac aaataccccc 840
 gccccgggct tccctggtea aatgcaccat cccggcggaac aaggtgtaaa ccccttctt 900
 gtcgcccga ctcactccgg caatcctatg cctccgggaa ccccttcaat ggaccctctc 960
 tcccatcacc gctccactgg cactcgcag actccgacct ctgttcgcac cgtaaaacca 1020
 ccagagtact tccccgagtg gaaggagcaa acagcaacct agcagcctgc ccagaatcaa 1080
 ccaggtctca atgggcccgg cggtcgggca tctagtggca gccaccgtgg tatggaagaa 1140
 gcagttttcc ttggagcgca gggtgcctcc aaggtggttt ttgtgatcga tcagggcctc 1200

agtaagggtt ttatgagccg tgttgagtat aatgagaatg gcccgtcggc gattcatgag 1260
 tatgttatgt gagcttcggc taaaccgatt atatggatgc caatccactt tcgcctcatc 1320
 tgtcattcga cgtcgagctt tttactttct ctcttcagtg cttttatgta tcgtgggttt 1380
 tacgaggcgt ggtctgttat ttcagaaaag caatctgtta ggatcatggg aggataggcg 1440
 gagttagtca agtagtagat atcaatgtat tcgtttaata actatgggat cttatagctt 1500
 tcacctcttg acgcgagtac ctacatctcg aaatggaagc acgtgatact gacacgtgac 1560
 tctgacggat aatcagctta tcgatcacgc ccactagcct ccgctcaact tctcattgac 1620
 ctaaactccg tacattttgc gcttgtcaag gatattgatc tgttatcgca aaaatgccgc 1680
 gcgctgaagc tggaagcacg aaagcgctca gtaacaagct gaaggccgta cgttttcttc 1740
 tgttccagac ataccttttc acagaatgaa gagctaacat cgtgcagaaa ggtctaggtc 1800
 gtctgcgatg gtactgcaa gcttgcgagc gacaaatgcg cgatgaaaac ggtttcaaat 1860
 ggtgagttag tcgcatacta tagatgaaag taattttata acagatgtac taatgggttt 1920
 cctagtcacg tccaaagcga aagtcacgtc cgacaagttc tgcttatcgg cgaggatccg 1980
 aaacgataca ttgaggattt cagcaggcag tttatcaaga atttctgga tctgctgcgg 2040
 actaccacg gagagaagaa ggtgcacatc aatcagtttt atcagcaggt tatcgctgat 2100
 aaagaggtta gttttaaccc atgctttata cttgtaaaaa gagttgttgc tgacctgttt 2160
 tgctgtagca cattcatatg aacgcgacga aatggaagag tcttaccag tttgcagcgc 2220
 accaaggacg tgaggggctg tgccatgttg aggagacgga gaagggcctg tttgtttcgt 2280
 atattgatcg gagtccagaa gcgatgcgac ggagagaggc gatcatgaag aaggaacggc 2340
 aggatcgagt agacgaggag cgggagcagc ggttaataca ggagcaagtg gagcgggcga 2400
 gagcaaagga aaagcaggag gagattggtc cggaggcgag gaatctgcag cgtaaggaag 2460
 gtgagaaggt caagttaaatt attggattcg gtgcgaaagc cacgccgcca gcatcgaccg 2520
 agcagtcgag aacacagtct cccgatgaga aagagaagga caaggataag gaatcctcct 2580
 ctgcaacgcc cgaatcatca gccactgcct ctcccgacc atctcaaaac cctcaggccg 2640
 caccgaaagt gtctatgtcg ctaggtggtg gaaatagcaa acccaaaaac gtgtttgcat 2700
 ccgcggcgaa gaagaacccg ctggctggga aaaaagctac tgtcgtggcc cctccgaaga 2760
 agatgtctga acaggagcgg atcatgaaac aggagatgga ggccatggag cggaagcgct 2820

tgggaggagg cggaatgcca aattctaagc ggcctaaagt gtcatagaagc gacattgttt 2880
 cgtcccttat caaggagccc taagaggagg tctcctcaac cccccgcagc tctgcaggct 2940
 ccatcgaccc ctcggttcttg gctgggtccag cgagtataat ggttggtcgc ttactctgga 3000
 gaatttcaaa caatgcacgg taatgactga aggagctgaa ggacaagaat accagaacca 3060
 tttctcccgg tccctgacgt gctttgtccg gagtccagac cattgataat ggagcagttc 3120
 atgtcagacg ggtgctggca tccgccacac tcttcatccc tgtatctatt cgccgatttg 3180
 ggattattag cgtcaaaata agattatgac ggcggcatca cttaatcctg gcaggtcagc 3240
 acgatcggtg ccaccagcca caatcaacct agaccctacg tgaccgcatt cttcaattcc 3300
 caatggctct tccacttttag aataatagtc tttagttgat taatctagcc tccccagtcg 3360
 ccgccggagt tggagtttcc gcttacgaaa gacggtgacc cgtttaaggg gcgggttcag 3420
 cgcacggtg aaacgcaatt ccaccatcca gcgctcaacc tcattttaac atcgttatct 3480
 aaaacaacgt cgtctgggtga ttggagtctc gacaagcctg gaccacgctg caatatgctg 3540
 gtatctttac cttttcgccc tacggggatg gtataatagc gtcactcttc ccggacctgc 3600
 agtcaagtg gaagatcate tagcttgctg ttccttttgg tgtttccatt cgctacttca 3660
 tatcgccggt cgatataact ccgttcattc cgaaaatgaa gatttttctt ttaggcgcgg 3720
 tgctctgtgc ggcgcagagc gtcaccgctg ccctcgatgc gtcgctcctt gaaacctatg 3780
 ttga 3784

<210> 1953
 <211> 3992
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1953

tgtttttgat atagaaatct tccaaatgcc aagcaagggc ctcttcgtat ttgattcgag 60
 ttcgagcaat ctcttctggc gtcattgtccg tattagtcac ctgttggtgtt ttctgtttgg 120
 gcacgttcgt tcgccttgga accgatccga cagatggggc tatttgagca agattatctg 180
 ctcgttcttt ctgcgcgcca atctttctgg cctccatctc ttctcgttca atatcatcga 240
 cttgattgct cgtctcagaa gattgcctta atccagcttg ccctttctcc gtgttcaact 300
 catgctgacg tgtcgcgga tccggcgct ggagcctaac ggccttgtg aactgagact 360

cattgcgggg atccaccgcc ttcttagagg cgaatctcgc gatgtgatgc tttaaaccct 420
ccttgattgc ccgcttcgta gttacgagag gataatccac gtaagtctcg gataactaagg 480
gcccgctaaa tccactagca gcgaagtcgc ttttcgctgc gggatatgtt ggtttctcgg 540
atggcgcatc agacgggtgct ggctgtgtag gaaacgacct aagcgcttgc gtgttggtgct 600
aagagccctt tgctgtagtc ctcttttttg ggcgtacaag cgggtcagct accctaggct 660
gccgaatgcg cataggtggt gcgccagata tcaccgttgg agcctgcggg gtcgaactgt 720
ttgaaggcgt agtagtcatg atgtctgctg ctggttgtcc gaacgcaaag acagtacgat 780
aatcccgaga caattggaga cacgcgcaac atctgacgtc cgattagttt cagattggag 840
ctcgagtaat atgcattcgc ttgactcagt aaccagggga caatccaaat ggagaaagct 900
gacaccctgc ataagatgaa gagagtccg atacggagag tatgtccgta agcaacatat 960
cattgcttat gtaataaaca gtttgaggac cacttaactc tcagaatttg gagagccaaa 1020
gccagcctga acttccttca ataaattgac gagaattact tcatacattc ttaattcgca 1080
gtttaaattt ctacataga aagtaggata cattctttcc ttctagtaac cgcgcataat 1140
ggtctacgca gttcagtcga ctacgcctt ggaagcaatg aggaacaggc ccattgtatg 1200
tacatttagc atgtacattt agcagccaca gggctggcag atgccatgca aatgccataa 1260
tacagtacaa tcaacataac tgctccacct catccgtgaa ctctctggta taggtcggca 1320
taagctttct atcggatgta tataaatatc atgcattggc accatgaagc gaaggaacta 1380
gaacaattcc acgaccttcc tatcatcacc ctgattctgc cctgccgatg agtttccctc 1440
atcctcttcg tctgcataa tgacctggac ccatttatca caggcctcac gaacgccgtc 1500
gtcgtcaaca cggaggtgac attctcggat aacgggatag acgttcactg cccttagttt 1560
atcgcgtcct tcccgggtag ttgtcaacaa taaaagcgtc tcaagatgag taacgataat 1620
tccattatcg ctttctctct tcttgctggg gggcagcaac tggaggtctg ggagcatatt 1680
tgcagtatcc tcttcaactat actcttccg ccccataatt ggcagaagta tgtaaggcag 1740
aagattcgcc tcgtcttcag agaagagggt cggatgaaat ggtatttcaa atgcaacatt 1800
ctttatggtc gatgcaacac cctcctccg gaccgtgctc tcatgctccg tgaaaacggt 1860
gagttttgtc acaggcacga ctccatcata atcctgtctc gttgtgaaat atttgcggcc 1920
ctcctctagc ttcgacaagt cggcaaatag ataagataga tagtcgtagt tcgcgtgttg 1980

gttgagtgcg ccgtcggcgc ctttcacgaa acaatccatc aactgggtcaa ttgcatactc 2040
 ggagtttgag acaggattgg ccgttcgacg tttaagcgtc aatagctctt ttatattctc 2100
 ggattttcca agattggcaa acagcataca gatcccatcg gcatttcctt ctttggtatt 2160
 ctgccaaactg gcttggttagt ggaccgatgc agtgagtaaa gatcaaaata accgaggtaa 2220
 cagagagagt gaatgggata gccttggtcg aaccaaagt tgcagaaacc tacagtcact 2280
 ttgttgagga gtgtttccat aaaagcatca tcagtagcaa gtttatctag gatctcctta 2340
 tcaccagaaa gggtgacgag aattgttaac gcacgctcg caataggcta tccagcaggt 2400
 cagttccatg aagaaggggc agaataaat cccatatgtt caattcaaaa aggggcatgc 2460
 tctactgactg tatagtctcg aacaagaagt tttaagtctt ggataggcaa aagctgggtga 2520
 cgtttgaaga tttccggcct cgacaccgaa tatccaacta atgttgcgca ggctggatag 2580
 tgttatcatc aattcagact gtgtttctaa gctgcattta ccaatctgtc tgatctgagt 2640
 gtttccatga tggagaaatt caaccaactg gaaacgcagg aacaagttag ttagggataa 2700
 gcttatgcaa tgagatacca tacttcgtcc agttctgtct tcatactcag gtttttcagg 2760
 ttatttatag tgatttgacc gtcagagcag cagagcagga gttcaagtga gttggaggaa 2820
 aatacttcag ctaactttct cagaagcggg gcagttctta tcgataaggc cgtggggcaa 2880
 acaatgaatt gaagtcagtc catgaccagc ttagacaatc aatggctctaa agaaatattg 2940
 ggcgccctag aacgttaata tttgaatatc tacttctctt gttttactag agggcatctg 3000
 gaaagggtctt ttgggagaca gctcagtgat gataacttag caggtgcgtc tctcgtccat 3060
 tgacatttgg aaagggcgtg gccattctg acaacccaaa tatcaatatc agtaaactcg 3120
 atgaggacat ttgacaact accagcgatg ccgagcgtgg cgtccttgca gctcagcttg 3180
 ttttgaatcg cagatttccg gcgtattcgt acatgtccat cgattcgcta tcgcaagtta 3240
 cgattttcaa gggaaatccg aaagctgcct ggattcttcg aggcctgcct cgacacagtc 3300
 gggtgaccat atcaattaca attaggggaa ttctcagatg ttctggctaa cattctctgc 3360
 tatgccaacc gccggagctg gacctcccgg gctgtcttcg cagagatact ctgggtctga 3420
 ggagcttggc ccgaagtggg catctactag atgctgcacg actggccagc cgtaggcatt 3480
 tgtgaacata cgccgaacga ttatgttggt gtgagcgtca ggttctaaac gaacaaggac 3540
 ctttcgccac gagagtcttc ggtggtaagc ccgagcgatt ttttcctcca ctttgagccc 3600

cgcggttat ttt gaaaagtcct tgcgcatatc gtaacctgca gcagtatccc taacctggga 3660
 tgtacgtgcc gctacactgc gccgggtcac aatgggaggg ggaatgtcct taggggtgga 3720
 aacacggtcg tgcaagatcg tacgtggcct tgattcgga ttgactatgt agtcgactgg 3780
 gggaaggggt ggcataagga tgtcaccagc tgattcaaat acagttgttc ttgggggcgc 3840
 ggtgaagcca gtatcataag aatcatggtc aaagtagggg ccatcttgct gtctcagatc 3900
 ttgggttatc gaaggagcga tcgtttgact gcgtgtaagg attttagctt gcttgcgccc 3960
 atgctccttt ggcctgaaca aagagaacag gc 3992

<210> 1954
 <211> 1048
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1954

ctttatataa tgctgtaaag gaataagaac tgtaccaagt aacaaaggta aattgagcca 60
 ggattaaagc tgggtctttca tatcaagcgc tgtaatggtc gttaaaagcg ggatttaact 120
 aatgaaaatc caagactatt acctccctta agctaagaaa tggaaacttg tgttggcacg 180
 ccttaaagtc caatacgtgt ttccaatcag tctatccatt aagtttgttt gtttttgccg 240
 ggttgcacga ggggttactat caaacctctt tgccagtctg agcctagatt caaggggggg 300
 cgggctgtcc actggataca ggtatggcgt gggctggagt ttgcttttct atcagccagc 360
 cagccagata gctagaagta ggtggctgat ttatataatt ggagaatata tcctctgcag 420
 gcatttgacg ctctctgat ctgtgtcatt gttagtggaa gacccaactg gtttttacac 480
 acagatggaa aggtgaagag gttctccaga tgggaaagta cgggtgtatac gaataatgat 540
 ctagacatca aaccgctgg aaacacaccg taaaacccc ctgtccttcc tgtccaccga 600
 acctgaaccg gggatactgc acttttcccc acacaacgag cttccactc ccattgatct 660
 ggatttcagc agaagtaaag cacttcacaa tctctctctc ggtccaatta caacttgta 720
 caaccaagaa tccgcccttg cgcacaaggc ttcccgaat ccccggtac cgctcacact 780
 cgctcttttc gaccatcaaa ctacagcat caaacgttcc cttgtcaagc acgatatcga 840
 agccaccctt gtcatacggg aaccagggaa ctttcttgct ctgcagggtc tctcgacaat 900
 ttagaatgtc acattcttcg aatcgaattt catgccattc ttcttcgctc tcgtcttcg 960

ccttgggtctc gcctccatca tcagaccatg aaccttcgtc atcctcctca tcagaatcac 1020
 ttagataagc ctctgtgacgc ttgggtgat 1048

<210> 1955
 <211> 2695
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1955

tgaccgacta ccaaacaagc tagctctata cctcactacg cttggggtaa taccttagtt 60
 catggttgct ctttgttttg aaaaatcaaa atgggctttg gtcgcaaacc tcgctgtttt 120
 gaaggctggg ggcgcggttg tccctattcg agctgatccc attcagcgtg tgcaaaacat 180
 cttgcaacag actggcatta caacgatact cgcctctgag ggctttgcct cggcgcctga 240
 aggttttagtg cctaatagtaa taactatagg cgatgatctg atccagtcgc tccaagccc 300
 tgtcacgcag cccatctcaa ccgttacacc ttccaatgct gcgttcgtca tcttcacttc 360
 cgggtcgcact ggaaacccca aggggtgtcgt cgttgagcat ggcgctatgt caaccagcat 420
 gcaggcacat ggcaagaagt tcggcatgaa ctgagagacc cgcgccttca atttcgcca 480
 ctttacgttc gacatctcgc tccatgacat tatatcaacg ctgcaattcg gcggctgtgt 540
 ttgcatgcc a tcagaaagag agcgagtaaa taacatggcc gatgcaatga atcgtatggg 600
 agttaactac tcgttccttc ctccacgtgt tatacatacc atcaagccgt ctgacgtgcc 660
 gggcctcaag accttagtgg taggtggtga agcggtgcaa ccagaatacc tggaaccctg 720
 gctaaatggt gttcgtgtat tcaatgccta cggccccgcg gaatgtagta tcgccgccac 780
 ctgcaatgag gttgccaata aagcggatgt gccgaatatc ggccgtgcga tagcaggtgg 840
 cctctgggtg gtggatgaga acaactacaa ccgacttcta cctcttgggg cagtgggtga 900
 gcttctgac gagggctctc tactcgctcg aggctacttg aacgacccta ttaagacagc 960
 caatgcattt atttgcaatc ctgcctggat ctcccgtac tctgaacacg accattgttc 1020
 acagcgccgc gagcggcgca tgtatgcac tggatgatctg gtacgtcaga tggaagacgg 1080
 atcacttatc tatgtcggac gacgcgatgg tcaagtcaaa attcgcggcc aacgagtcga 1140
 aatcggggaa attgagcacc atgtcaccga gcatecttct gtggtagaga atgtgatagt 1200
 ttaccctcac tgtggcccag cccagttgca gctcgttggg atattgacat tgcattggatt 1260

catttcttct gacgcagatg aggggaatcca aaccacgccc ctgcaccagc ttccccatgc 1320
cctgcagcaa gttcatccg tccgtgatca cctacactct tgtattcccg agtatatggt 1380
tcccaactcc tggatatcac ttgcagcaat gccgcacaac agttccgaca agattgatcg 1440
tcgccgactc acgcaatggc tggagaccat ggaggtggaa cattttaaaa tcctcacgca 1500
aagctacacg gaggggtacga caactccaag cacatccgaa gagaaaaaca tccaagctgt 1560
ctggggccgat gtactccacg cttcgattgg aaaggtccct atgagtcgcc cgttcttggc 1620
tgtggatggt gactcagtta ctgctatgca agtcgtgtca aagtgtcgca gccaatattc 1680
catctatgtt actgttcgcg atgtgctgca atgcgaatca atctctcaac tggcgaagaa 1740
ggctgtgatt aagaccacga gtcccaacac tgacactcag ctctctacct cttcaatcga 1800
tcaagctcca gccgctacaa gcgcaccaac ggcctttgat atcaacgcca gcgacttgtc 1860
taagcttgag accgacgtgc ttccgcggaac cggcgctcgag aacctttctg caattgagag 1920
catttactat tgctccccta tccaacaagg catcttgatg agccagatca aggaccacac 1980
aacatatcaa gtgcgccagg ccggagagat tcgtgccgct gattcttcac cggtcgacat 2040
gaaccgactc ctacgcgcgt ggcagttggt tgtgcagcga catgctattc tacgtacatt 2100
ctttgtccct agtccatcgg gacgggaact cttttatcaa gttgtactca aaagatacac 2160
tccaacaata ccagtgtgc agtcttgag tagtgatgat ttcttgctc aattcgaagg 2220
actcgaacgt ccggagtacg ccccggggca gccgccttac cagctcacc tagcccaagc 2280
ttctacaggg caagtttacg cccaggttga tgtcaaccac gttctaattg acgcctcatc 2340
catggatcta attctcaatg atctcattct ggcatatgat aatatgcttc cagactcgcc 2400
tgctccatca tatggcatct atgtctcgtt cctgcaacag accttcgctt tcgactccct 2460
gaactactgg acgaatcacc ttgctggtgc agagccgtca tgccttctg cctcttctaa 2520
tctagactcc ggaaagcgct ccttgagaac ggtttctctc gaagtagata acataaaacc 2580
tctgcaagat ttcagagaca cgcattggagt tacgattgca aacatcacac agctcgctg 2640
ggccacggtt ttatctcggg atcttggttc ccgcgatgtc agctttggct atatt 2695

<210> 1956
<211> 1164
<212> DNA
<213> *Aspergillus nidulans*

<400> 1956

atgtgtgaaa gctccggcac ctgcggcagc ttcagctctt caccatcgga taggtatgct 60
gctcgacaga aactcgacag atttcacttc ctggcagaca agtggttaggc catactcggt 120
ttctttgtcc gcctgggaca aaactggtga agattagatt tgtatactcg acagcctggc 180
gtgaacaggt cagctggcta gatctctatc tcgaccacct ttattgcgtt cgagcatgct 240
gcactcgttg gaccgtgtct agggcgatgat tcggtttgtt gaagaccttc ctcaaacggg 300
ttcctttcat gctggatttg gtgagtctct accttagcta catccgacag tccccttcca 360
agccaacagt atctggttca gagcatccat gaagacgaga atgtcttcga agtgccagag 420
gtagtggata taattgactg gccagtttgg ctgagatagc agccaatact gaagcaattg 480
ggaggaagca aacgagcgag ccacggcatg gtccttgaag ggcgttctcg ttggttggca 540
ttttactcag gtcaaggagc gttccgtata tcctggctgc tggtaatcaa gaccagcttg 600
ccttctatac ccagaagttg tcttacctgg gatctgcagg attcagatgc gctagacgtt 660
tgtcaggttc tcgtgcgtag tgtaggggtt gaggttgcaa gggatattga tgggcagaac 720
ttgagcaggt cttaggggta aggacaagaa caaatggacg agttgaaggc gttctcagac 780
taagtggata ggtgagggtc acggcttctt tatgcttggt acgcgccctc tatagctgaa 840
ttgggggatt ccgtcctttc tatagtagct aactggcag gcttagctgt gtgaatagta 900
ctgcttgccg actataccat tcaaaatagg acgatgtttg atgactcggt tctcatgtct 960
atcactatgt acaaattcta tatctaaata acatgtaaca agctcagcat ccttcattaa 1020
agcggtttat tagatattag aagccaacaa cacgcggctt ctcaaattggc tctgcaggcc 1080
atccctgcat ggtgacggca tcgtcgacgc agtctcctga caagacaagc gtatgctcca 1140
gcaaacaggc gtccttgccc attg 1164

<210> 1957

<211> 3186

<212> DNA

<213> *Aspergillus nidulans*

<400> 1957

aaaggttggt gataaggaag ggctcgcta ggtggagtat tggggccga tggaatgata 60
agatctatgc ccgtcatacc cctgggttcg aagcgacagt ttctggacct gagcagaagg 120